

SHARP SERVICE MANUAL

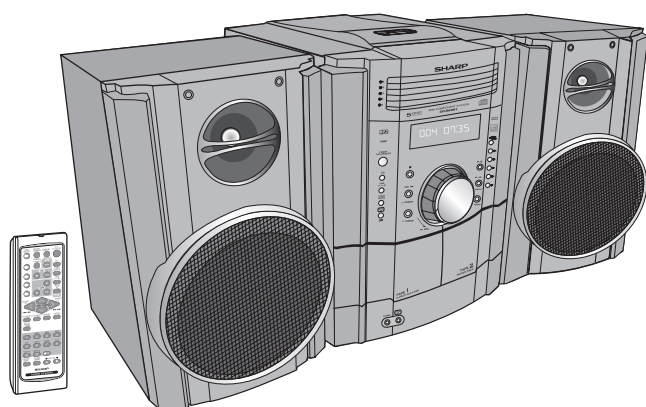
No. S7838CDDK890N

MINI COMPONENT SYSTEM

MODEL CD-DK890N

CD-DK890N Mini Component System consisting of
CD-DK890N (main unit), CP-DK890N (speaker system).

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.



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PARTS GUIDE

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN, POWER, DISPLAY, AUDIO IN, IPOD TRANSIT, IPOD, CD PWB" of this model employs lead-free solder.

The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

LFa
Sn-Ag-Cu Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled off for the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition. Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A	92LPWB7312MANS	MAIN (A1), POWER (A2)
PWB-B	92LPWB7312DPLS	DISPLAY (B1), AUDIO IN (B2), IPOD TRANSIT (B3)
PWB-C	92LPWB7312PODS	IPOD
PWB-D	92LPWB6700CDUS	CD

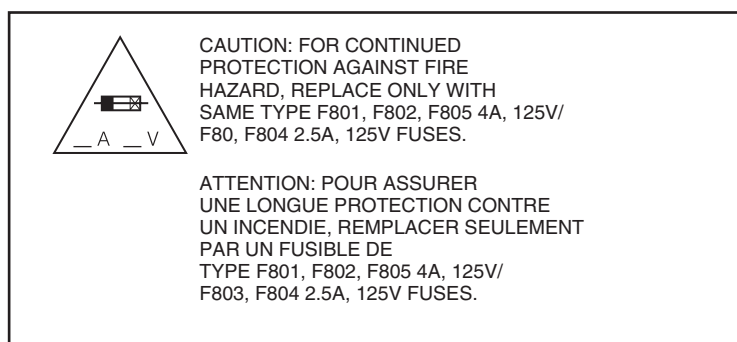
CHAPTER 1: GENERAL DESCRIPTION

[1] Important Service Safety Precaution

■ **CAUTION :** “These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so”.

■ WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.



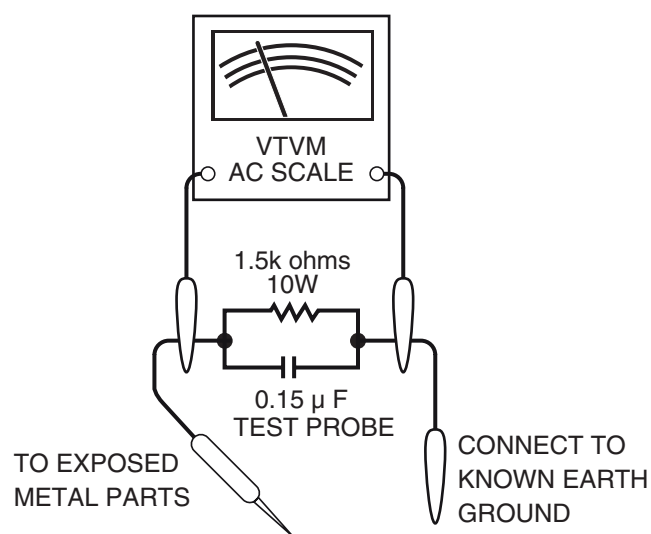
[2] Important Service Notes (for U.S.A only)

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - * Plug the AC line cord directly into a 120 volt AC outlet.
 - * Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
 - * Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
 - * Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) Or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

[3] Specifications**■ General**

Power source	AC 120 V ~ 60 Hz
Power consumption	105 W
Dimensions	Width: 10 - 1/4" (260 mm) Height: 13" (342.7 mm) Depth: 12 - 7/8" (324 mm)
Weight	16.32 lbs. (7.4 kg)

■ Amplifier

Output power	RMS : Total 250 W (125 W per channel into 6 ohms at 1 kHz, 10% Total harmonic distortion.) FTC : 90 W minimum RMS per channel into 6 ohms from 100 Hz to 20 kHz, 10% Total harmonic distortion.
Output terminals	Front Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output: 1Vp-p
Input terminals	Audio In (audio signal): 250 mV/47 k ohms

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 530 - 1,720 kHz
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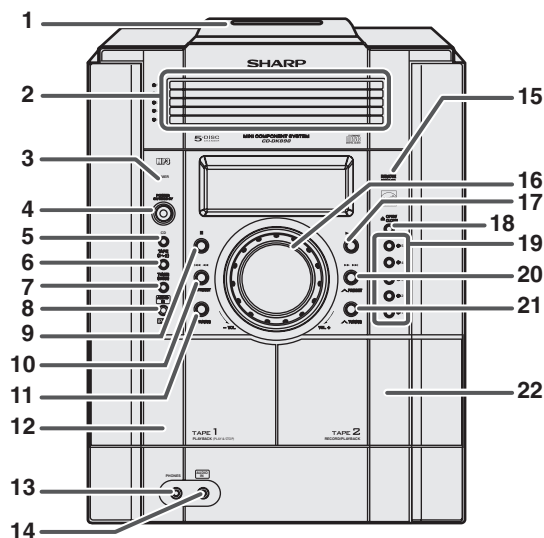
■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Speaker

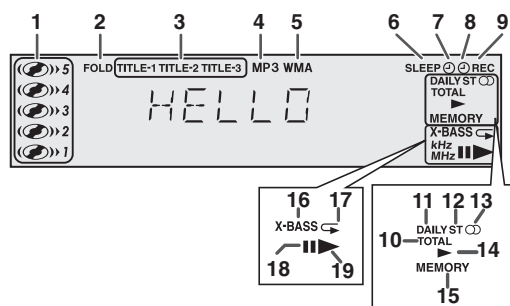
Type	2-way type speaker system 2" (5 cm) tweeter 6 - 5/16" (16 cm) woofer
Maximum input power	250 W
Rated input power	125 W
Impedance	6 ohms
Dimensions	Width: 7 - 7/8" (200 mm) Height: 13" (330 mm) Depth: 8 - 11/16" (220.5 mm)
Weight	7.0 lbs. (3.18 kg)/each

[4] Names Of Parts



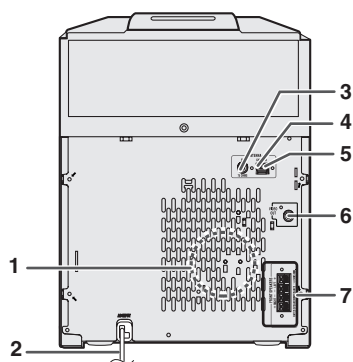
■ Front panel

1. iPod Terminal
2. Disc Trays
3. Timer Indicator
4. Power On/Stand-by Button
5. CD Button
6. Tape (1 ~ 2) Button
7. Tuner (Band) Button
8. Audio In/iPod Button
9. CD or Tape Stop Button
10. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
11. Tuning Down, Cursor Down Button
12. Tape 1 Cassette Compartment
13. Headphone Jack
14. Audio In Jack
15. Remote Sensor
16. Volume Control
17. CD, iPod Play or Pause, Tape Play Button
18. Disc Tray Open/Close Button
19. Disc Number Select Buttons
20. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
21. Tuning Up, Cursor Up Button
22. Tape 2 Cassette Compartment



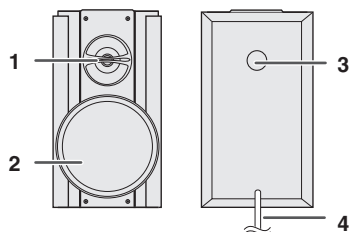
■ Display

1. Disc Number Indicators
2. MP3/WMA Folder Indicator
3. MP3/WMA Title Indicators
4. MP3 Indicator
5. WMA Indicator
6. Sleep Indicator
7. Timer Play Indicator
8. Timer Recording Indicator
9. Tape 2 Record Indicator
10. MP3/WMA Total Indicator
11. Daily Timer Indicator
12. FM Stereo Mode Indicator
13. FM Stereo Receiving Indicator
14. Tape Play Indicator
15. Memory Indicator
16. Extra Bass Indicator
17. Disc Repeat Play Indicator
18. Disc Pause Indicator
19. Disc Play Indicator



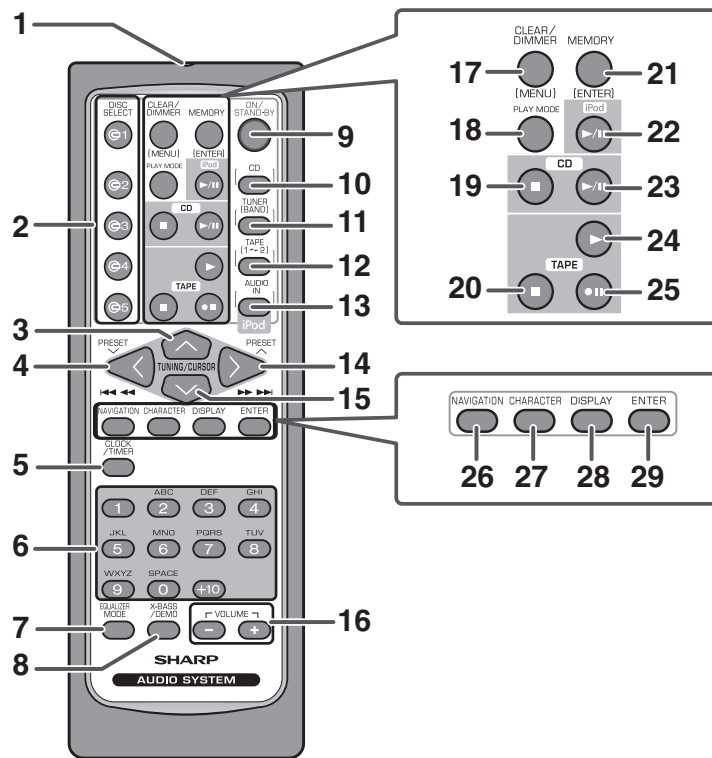
■ Rear panel

1. Cooling Fan
2. AC Power Cord
3. FM 75 Ohms Antenna Jack
4. AM Antenna Ground Terminal
5. AM Loop Antenna Terminal
6. Video Out Jack
7. Front Speaker Terminals



■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. Tuning Up, Cursor Up Button
4. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down, Cursor Left Button
5. Clock/Timer Button
6. Character Input/Disc Direct Search Buttons
7. Equalizer Mode Select Button
8. Extra Bass/Demo Button
9. On/Stand-by Button
10. CD Button
11. Tuner (Band) Button
12. Tape (1 ~ 2) Button
13. Audio In/iPod Button
14. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up, Cursor Right Button
15. Tuning Down, Cursor Down Button
16. Volume Up and Down Buttons
17. Clear/Dimmer, iPod MENU Button
18. Play Mode Button
19. Disc Stop Button
20. Tape Stop Button
21. Memory, iPod ENTER Button
22. iPod Play/Pause Button
23. Disc Play/Pause Button
24. Tape Play Button
25. Tape 2 Record Pause Button
26. MP3/WMA Navigation Mode Select Button
27. Character Button
28. Display Button
29. Enter Button

CHAPTER 2. ADJUSTMENTS

[1] Mechanism Section

- Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 75 g Tape 2: Over 75 g

- Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	25 to 85 g.cm	25 to 85 g.cm
FF/REW	—	45 to 195 g.cm
BACK TENSION	1.2 to 7.0 g.cm	1.2 to 7.0 g.cm

- Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 \pm 90 Hz Speaker	Speaker Terminal (Load resistance: 6 ohms)

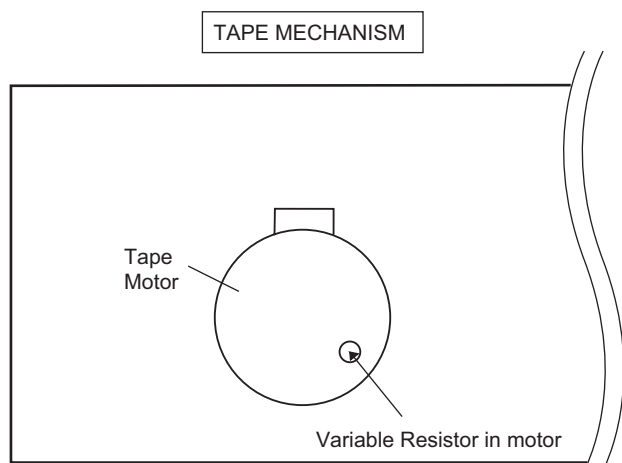


Figure 1

CD Error code description

Error	Explanation
10*	CAM error. Can't detect CAM switch when CAM is moving.
11*	When it detect cam operation error during initialize process.
20*	TRAY error. Can't detect TRAY switch when TRAY is moving.
21*	When it detect TRAY operation error during initialize process.
31	When it change to CD function, DSP cannot read initial data.

* 'CHECKING'

If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD**'. 'ER-CD**' display will only be displayed when error had been detected for the 5th times.

Standard Specification of Stereo System Error Message Display Contents

Error Contents	Display	Notes
CD CD Changer Mechanism Error.	'ER-CD**' (*)	10: CAM SW Detection NG during normal operation 11: CAM SW Detection NG during initialize process 20: TRAY SW Detection NG during normal operation 21: TRAY SW Detection NG during initialize process
CD DSP Communication Error.	'ER-CD31'	DSP COMMUNICATION ERROR.
Focus Not Match/IL Time Over.	'NO DISC'	
TUNER PLL Unlock.	FM 87.5 MHz	PLL Unlock.

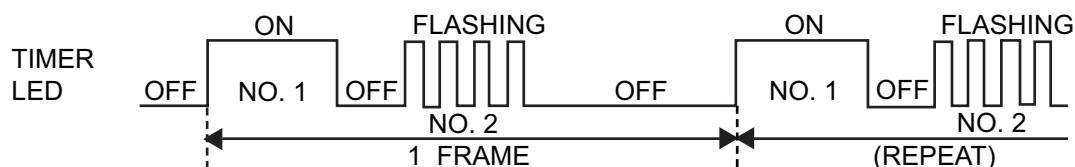
(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**'. 'ER-CD**' display will only be display when error had been detected for the 5th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, the unit will automatically enter to stand - by mode and Timer indicator will be flashing as below.

Example : In case of speaker abnormal



NO.1 : +B Protection
NO.2 : Speaker abnormal

+B PROTECTION is condition when irregular process occur on power supply line.

BEFORE TRANSPORTING THE UNIT

The following process need to be taken after set tapering/parts replacement.

1. Press the ON/STAND-BY button to enter stand-by mode.
2. While pressing down the \blacktriangle button and the $\blacktriangleright/\blacktriangleleft$ button, press the **ON/STAND-BY** button. The Micro Computer version number will be displayed as "CP*1001".
3. Press \blacktriangle button until "WAIT"→ "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

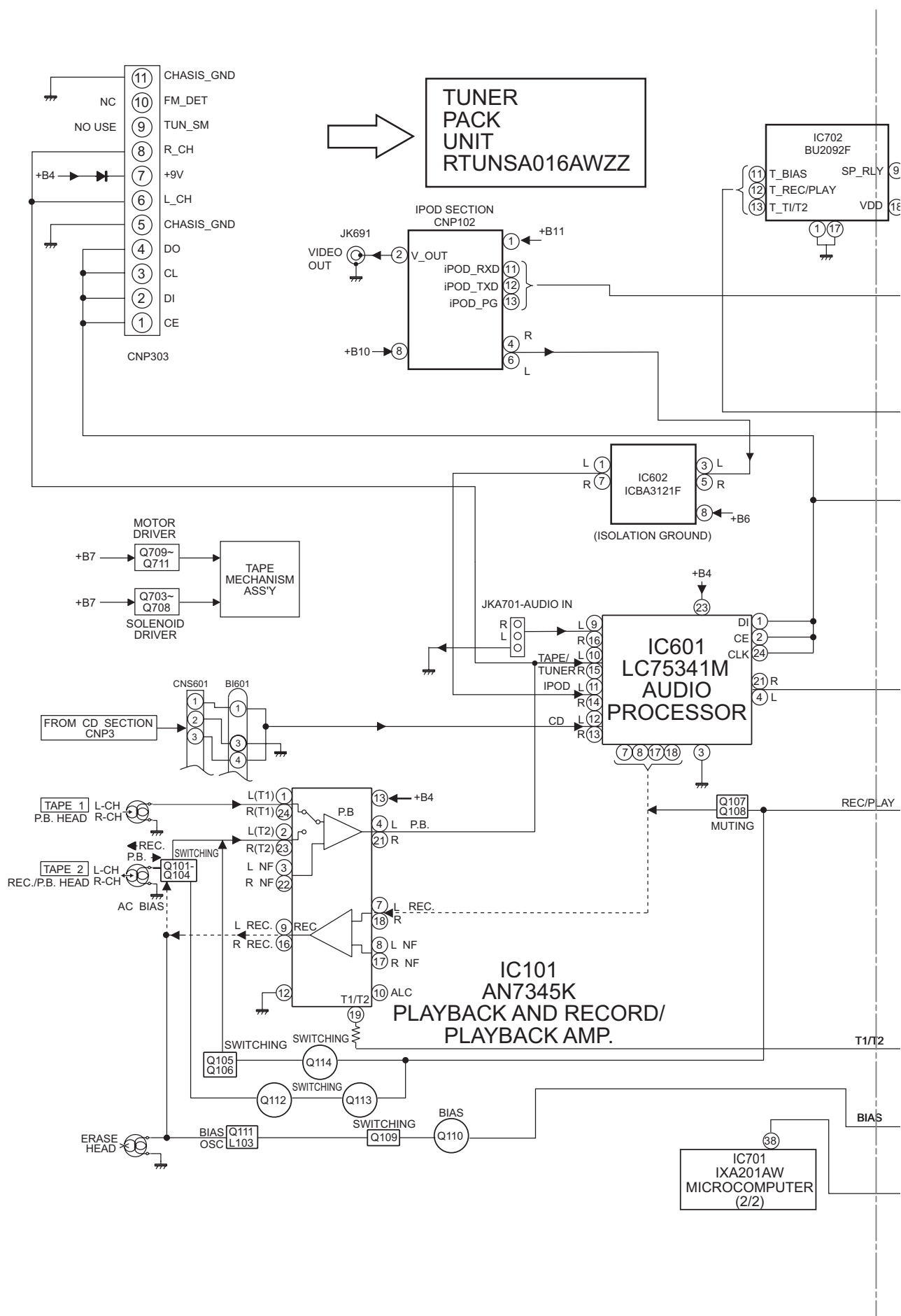
CHAPTER 4. DIAGRAMS**[1] Main Block Diagrams**

Figure 4-1: MAIN BLOCK DIAGRAM (1/2)

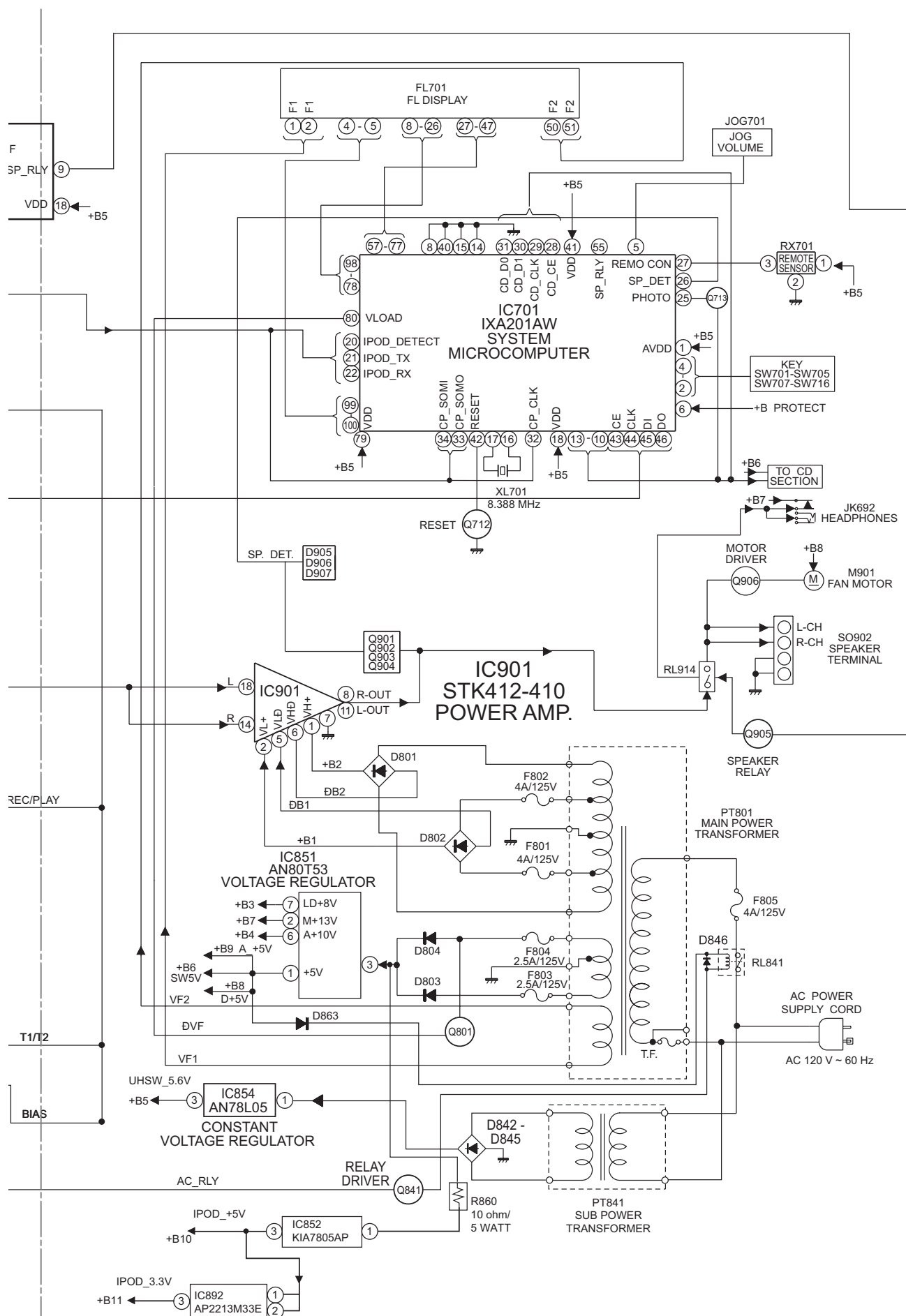


Figure 4-2: MAIN BLOCK DIAGRAM (2/2)

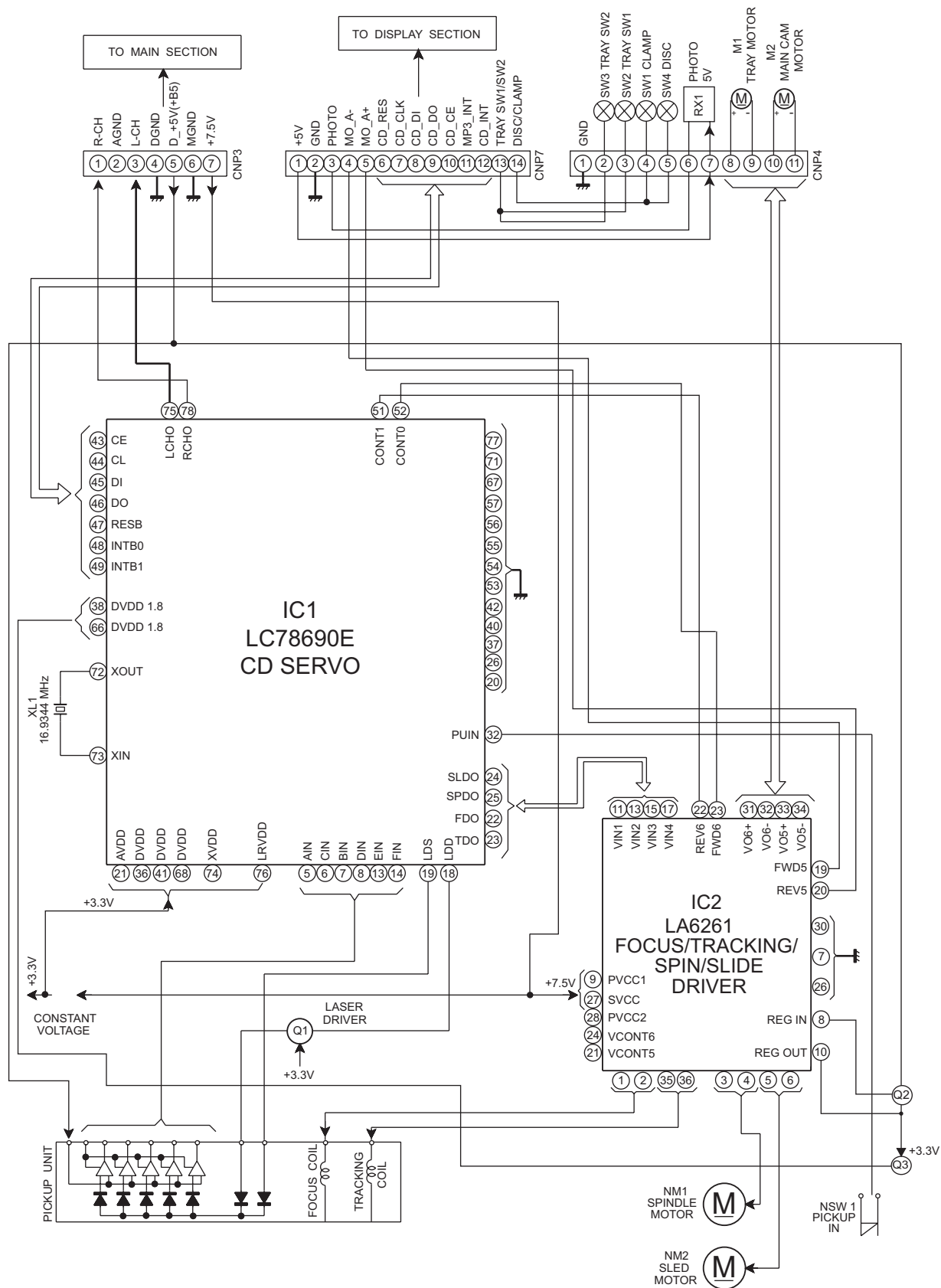
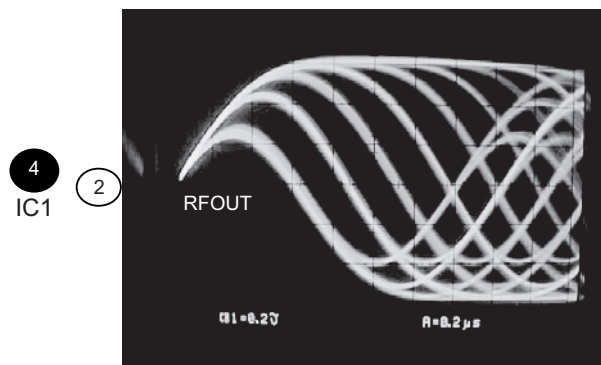
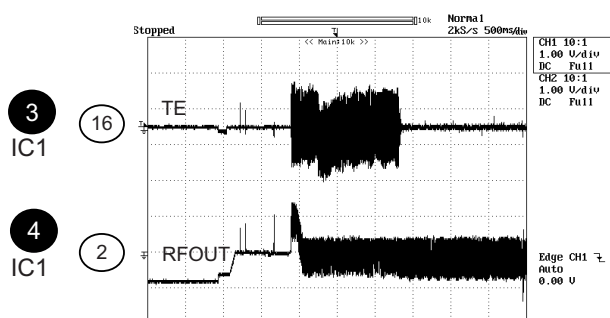
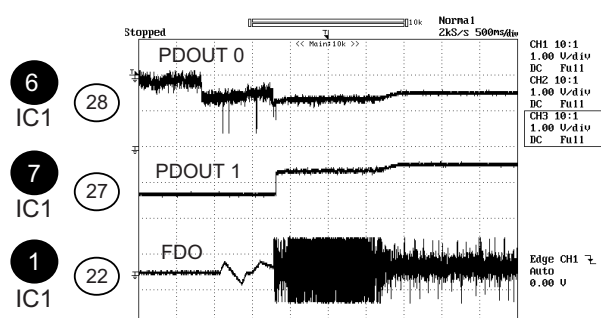
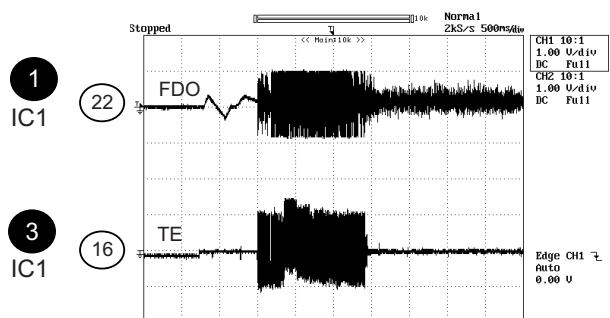
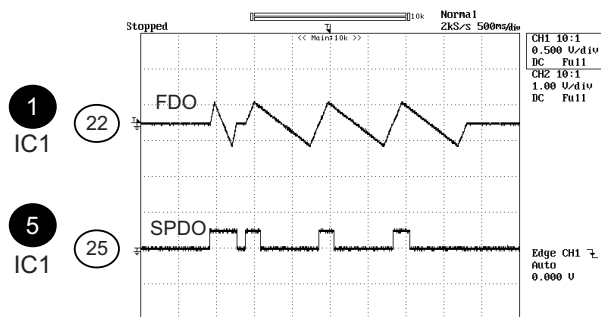
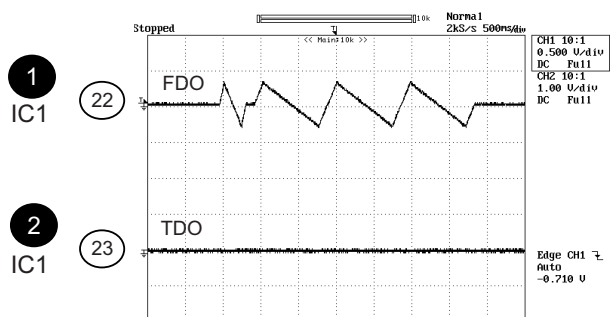


Figure 4-3: CD BLOCK DIAGRAM

CHAPTER 5. CIRCUIT DESCRIPTION

[1] Waveforms Of CD Circuit



[2] Voltage

IC701			
PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	4.91	51	-0.20
2	4.90	52	4.54
3	4.90	53	4.54
4	4.90	54	0.00
5	5.00	55	0.00
6	3.83	56	0.00
7	5.07	57	0.00
8	6.02	58	-29.43
9	5.07	59	-29.43
10	5.07	60	-29.43
11	5.07	61	-29.43
12	1.40	62	-29.43
13	1.40	63	-29.43
14	0.00	64	-29.43
15	0.00	65	-29.43
16	2.17	66	-29.43
17	2.60	67	-29.43
18	4.57	68	-29.43
19	0.00	69	-29.43
20	4.88	70	-26.56
21	1.30	71	-29.43
22	4.08	72	-29.43
23	3.90	73	-18.68
24	1.77	74	-26.56
25	5.04	75	-26.71
26	5.05	76	-21.36
27	4.77	77	0.00
28	0.17	78	-0.16
29	4.50	79	4.56
30	4.50	80	-29.57
31	1.32	81	-16.00
32	0.00	82	-26.75
33	0.00	83	-18.70
34	5.07	84	-23.91
35	4.03	85	-23.53
36	1.97	86	-29.04
37	0.31	87	-20.82
38	1.99	88	-15.57
39	-0.59	89	-26.33
40	0.00	90	-26.27
41	4.57	91	-26.28
42	4.71	92	-26.28
43	0.00	93	-26.28
44	0.00	94	-26.28
45	0.00	95	-26.28
46	5.06	96	-26.28
47	4.93	97	-26.28
48	1.35	98	-26.28
49	1.36	99	-26.28
50	4.56	100	-26.09

IC702	
PIN NO	VOLTAGE (V)
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1.55
10	1.24
11	0.00
12	1.90
13	1.04
14	12.98
15	12.98
16	12.91
17	0.00
18	4.88

IC852	
PIN NO	VOLTAGE (V)
1	20.35
2	0.00
3	4.99

IC101(IPOD)	
PIN NO	VOLTAGE (V)
1	0.18
2	0.00
3	0.66
4	2.12
5	1.34
6	0.00
7	-0.15
8	-0.21
9	-0.31
10	-0.36
11	0.00
12	0.13
13	1.94
14	0.13
15	-0.22
16	0.00
17	-0.31
18	0.00
19	-0.15
20	-0.29

IC602	
PIN NO	VOLTAGE (V)
1	2.94
2	2.91
3	2.90
4	0.00
5	2.90
6	2.90
7	2.95
8	5.08

IC892	
PIN NO	VOLTAGE (V)
1	4.99
2	4.99
3	3.41
4	2.10
5	0.00
6	0.00
7	0.00
8	0.00

IC 1										
PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)
1	1.59		21	3.24		41	3.13		61	1.55
2	0.47		22	1.62		42	0.01		62	1.93
3	0.39		23	1.63		43	0.05		63	1.93
4	2.79		24	1.62		44	2.93		64	1.93
5	1.63		25	1.64		45	2.88		65	0.00
6	1.63		26	0.00		46	1.87		66	1.81
7	1.63		27	0.33		47	3.13		67	0.00
8	1.63		28	1.62		48	3.13		68	3.13
9	1.63		29	1.10		49	3.13		69	0.03
10	1.63		30	3.05		50	0.00		70	0.02
11	1.64		31	0.00		51	3.12		71	0.01
12	0.00		32	3.26		52	3.12		72	1.34
13	1.63		33	0.03		53	0.00		73	1.53
14	1.63		34	0.03		54	0.00		74	3.01
15	1.62		35	0.03		55	0.00		75	1.54
16	1.64		36	3.26		56	0.00		76	3.23
17	1.63		37	0.02		57	0.00		77	0.00
18	3.27		38	1.81		58	0.00		78	1.59
19	0.00		39	2.56		59	1.58		79	3.24
20	0.00		40	0.00		60	1.57		80	1.59

IC 2											
PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)	
1	3.43		10	3.28		19	4.51		28	7.64	
2	3.50		11	1.65		20	4.50		29	7.58	
3	3.44		12	1.65		21	3.45		30	0.00	
4	3.48		13	1.65		22	3.10		31	0.00	
5	3.44		14	1.65		23	3.10		32	0.00	
6	3.49		15	1.65		24	3.09		33	0.00	
7	0.00		16	1.65		25	1.65		34	0.00	
8	4.20		17	1.65		26	0.02		35	3.49	
9	7.63		18	1.65		27	7.64		36	3.45	

Q 1	
PIN NO	VOLTAGE (V)
E	3.26
C	0.10
B	3.23

Q 2	
PIN NO	VOLTAGE (V)
E	4.86
C	3.27
B	4.19

Q 3	
PIN NO	VOLTAGE (V)
E	1.81
C	3.26
B	2.33

Q 4	
PIN NO	VOLTAGE (V)
E	0.00
C	3.28
B	0.00

IC 601	
PIN NO	VOLTAGE (V)
1	0
2	0
3	0
4	4.98
5	4.95
6	4.96
7	4.99
8	4.96
9	4.96
10	4.99
11	4.96
12	4.96
13	4.96
14	4.96
15	4.96
16	4.96
17	4.99
18	4.96
19	4.96
20	4.96
21	4.96
22	4.98
23	9.95
24	0

IC 901	
PIN NO	VOLTAGE (V)
1	53.7
2	22.7
3	10.7
4	-10.7
5	-22.7
6	-53.7
7	0
8	0
9	0
10	0
11	0
12	-52.2
13	52.4
14	0
15	0
16	-51
17	0
18	0

IC101 (MAIN)	
PIN NO	VOLTAGE (V)
1	0
2	0
3	0
4	2
5	2
6	1.32
7	0
8	0.6
9	3.48
10	3.44
11	0
12	0
13	6.9
14	4.18
15	0
16	3.45
17	0.6
18	0
19	2.59
20	2
21	2
22	0
23	0
24	0

IC 851	
PIN NO	VOLTAGE (V)
1	5.06
2	12.83
3	19.6
4	0
5	18.28
6	9.92
7	8.4

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

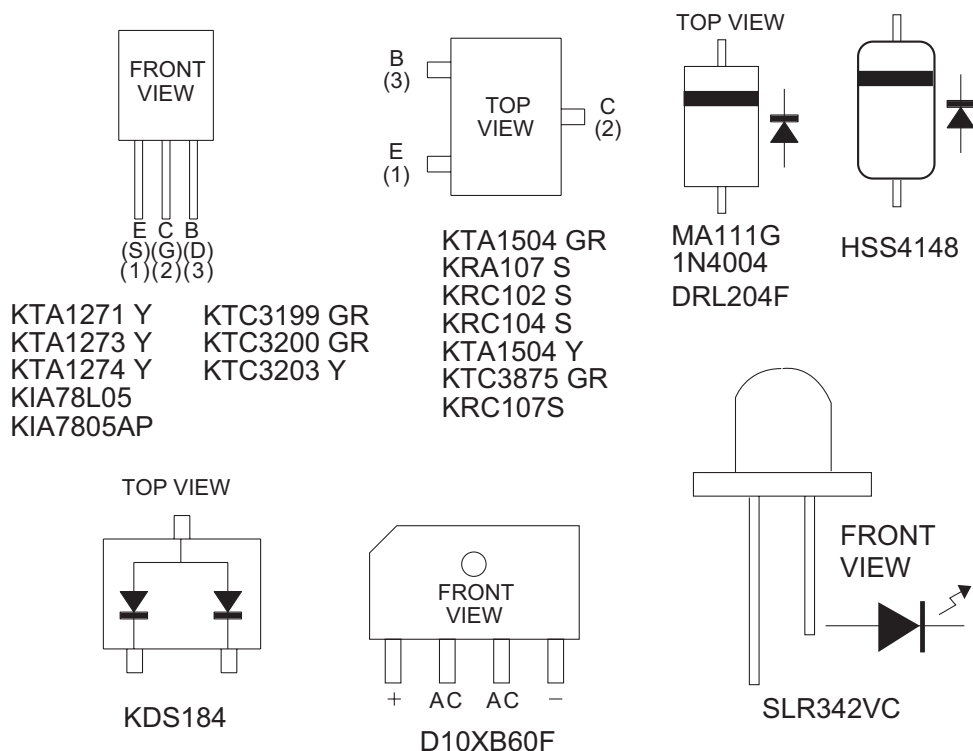
[1] Notes On Schematic Diagram

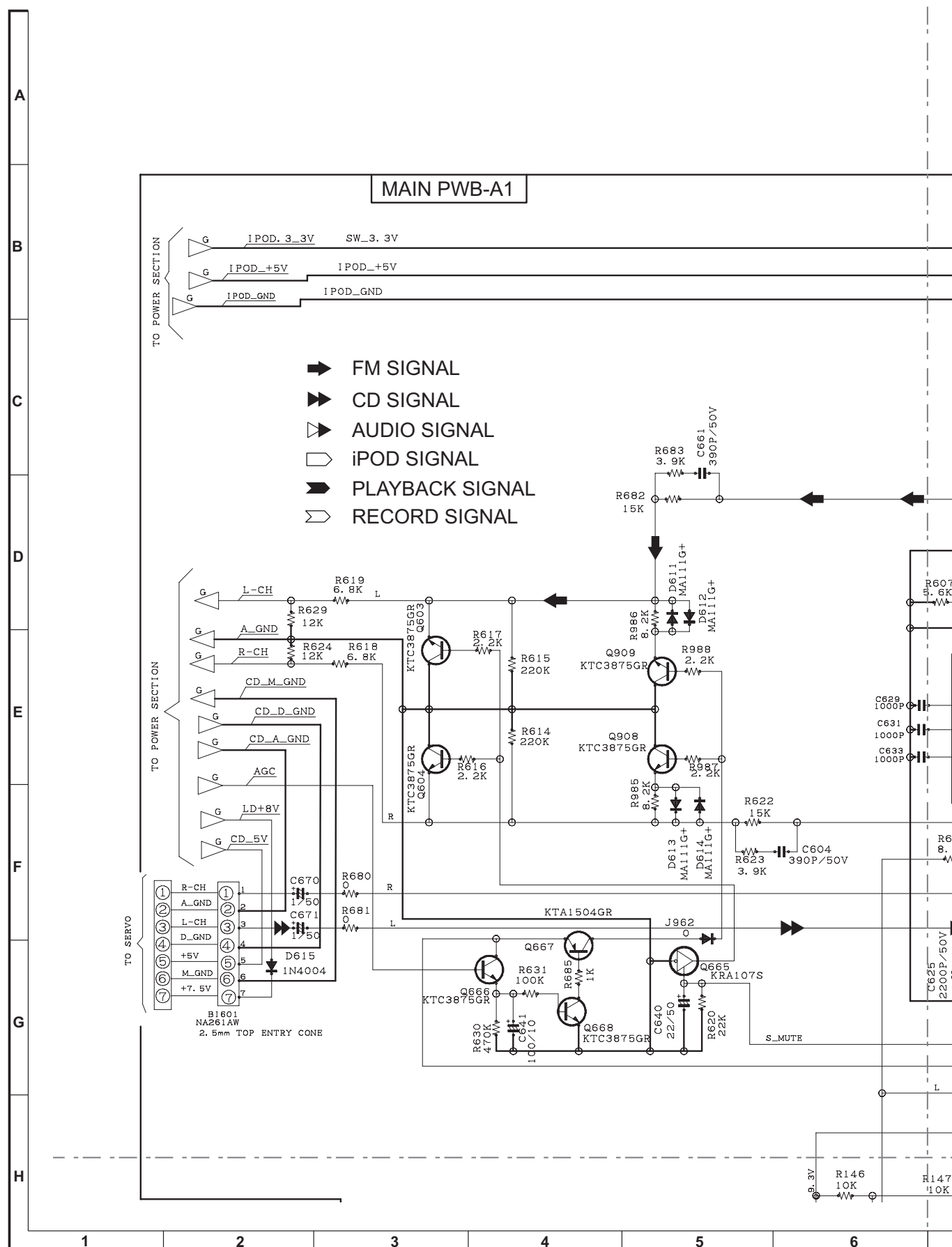
- **Resistor:**
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- **Capacitor:**
To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
(CH), (TH), (RH), (UJ): Temperature compensation
(ML): Mylar type
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
 1. In the tuner section, indicates AM indicates FM stereo
 2. In the main section, a tape is being played back.
 3. In the deck section, a tape is being played back. () indicates the record state.
 4. In the power section, a tape is being played back.
 5. In the CD section, the CD is stopped.
- Parts marked with "⚠" (⚠) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
JOG701	VOLUME	MAX—MIN
SW701	POWER ON /STAND-BY	ON—OFF
SW702	CD	ON—OFF
SW703	TAPE (1 ← 2)	ON—OFF
SW704	TUNER (BAND)	ON—OFF
SW705	PLAY/PAUSE	ON—OFF
SW706	STOP	ON—OFF
SW707	FAST REWIND/PRESET DOWN	ON—OFF
SW708	TUNING DOWN	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW709	FAST FORWARD/PRESET UP	ON—OFF
SW710	OPEN/CLOSE	ON—OFF
SW711	DISC 5	ON—OFF
SW712	DISC 4	ON—OFF
SW713	DISC 3	ON—OFF
SW714	DISC 2	ON—OFF
SW715	DISC 1	ON—OFF
SW716	TUNING UP	ON—OFF
SW717	AUDIO IN/IPOD	ON—OFF

[2] Types Of Transistor And LED





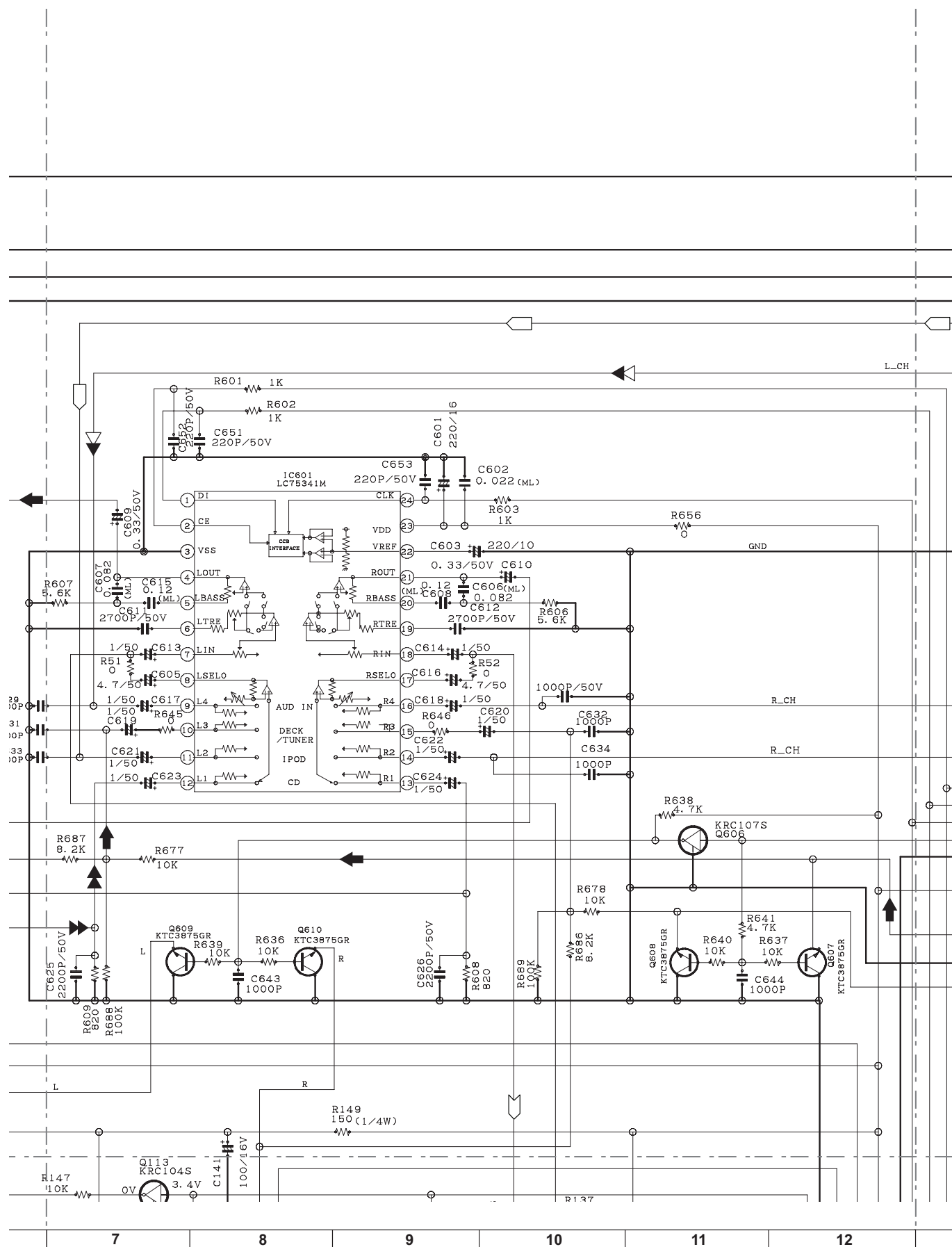


Figure 6-2: MAIN SCHEMATIC DIAGRAM (2/6)

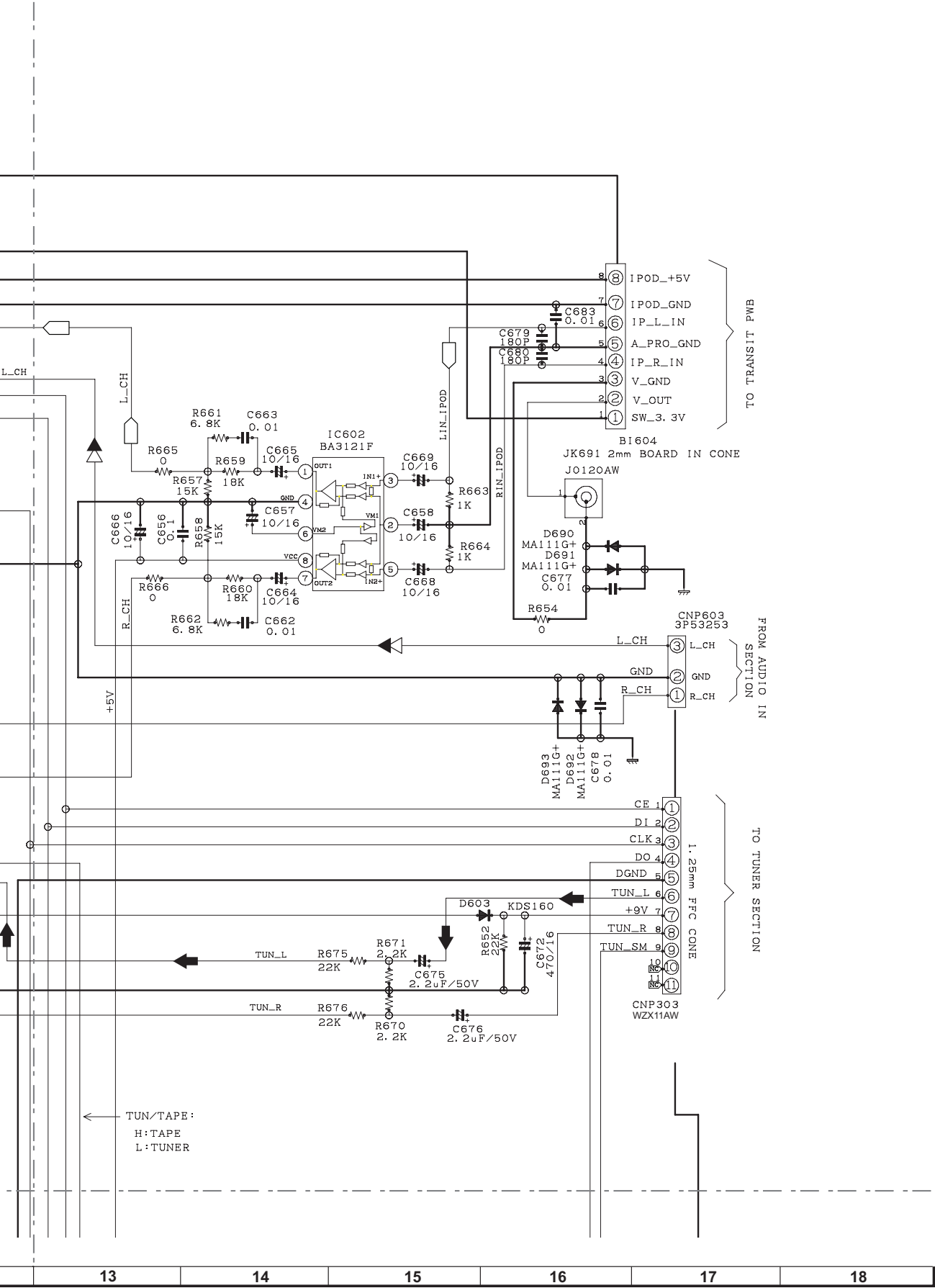


Figure 6-3: MAIN SCHEMATIC DIAGRAM (3/6)

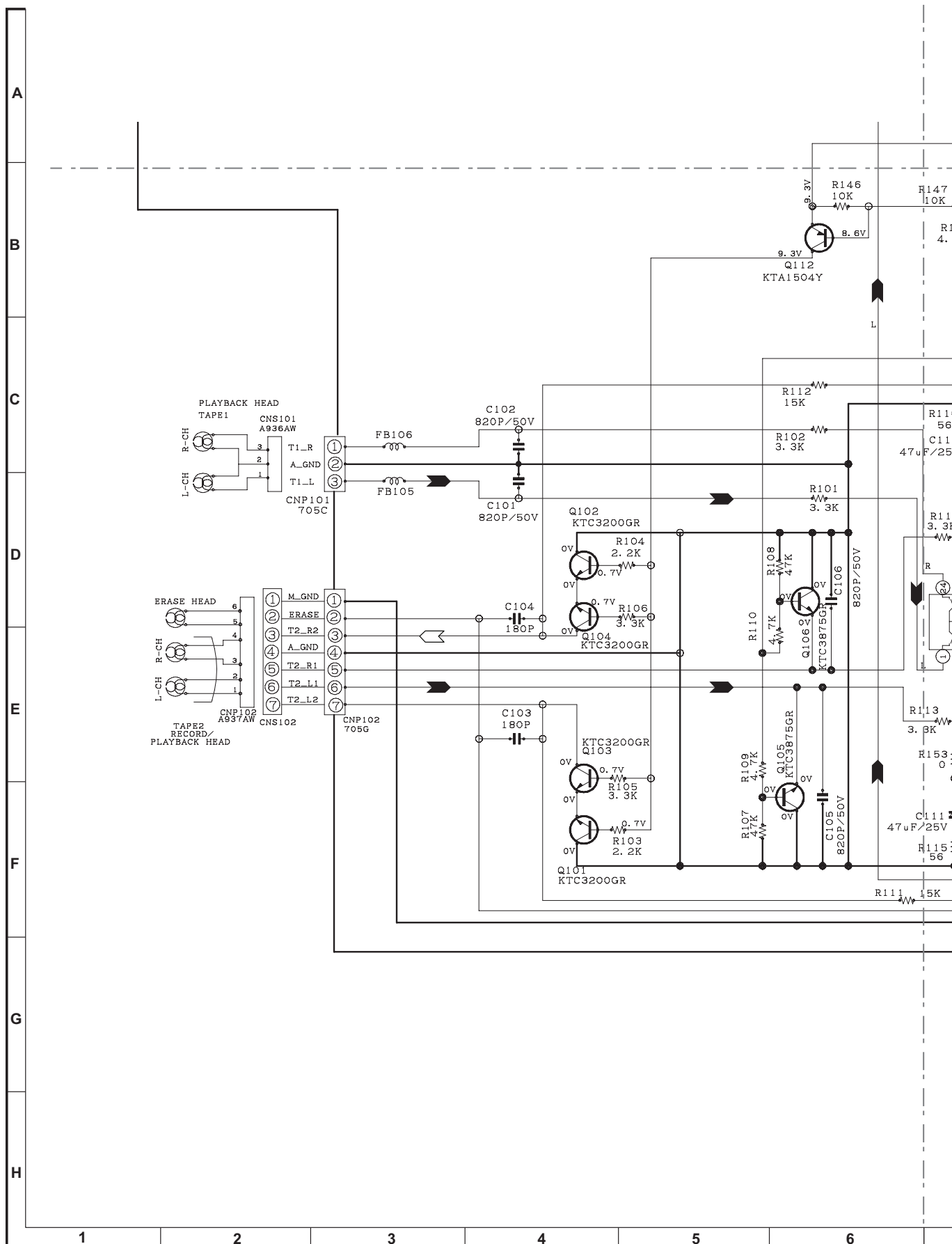


Figure 6-4: MAIN SCHEMATIC DIAGRAM (4/6)

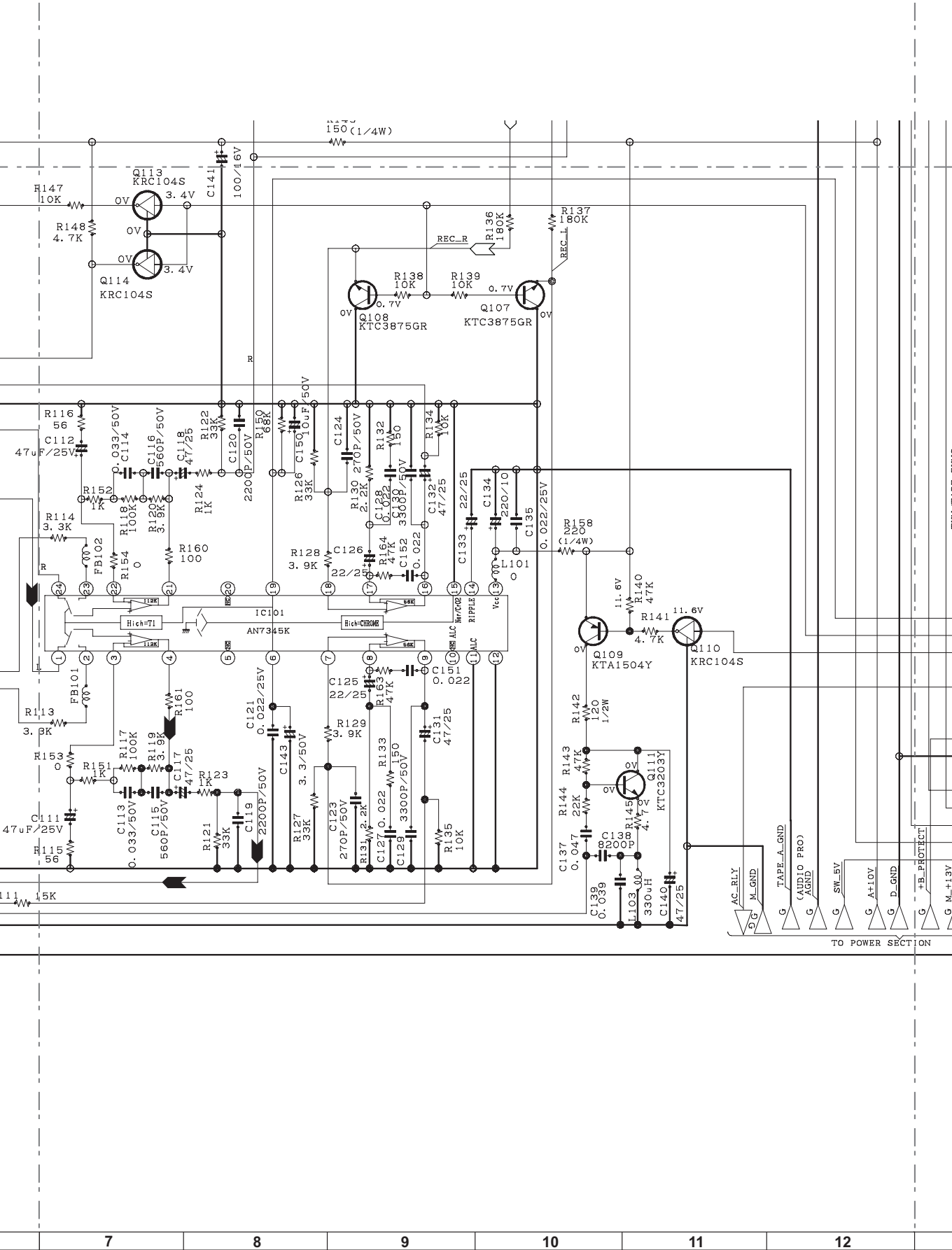


Figure 6-5: MAIN SCHEMATIC DIAGRAM (5/6)

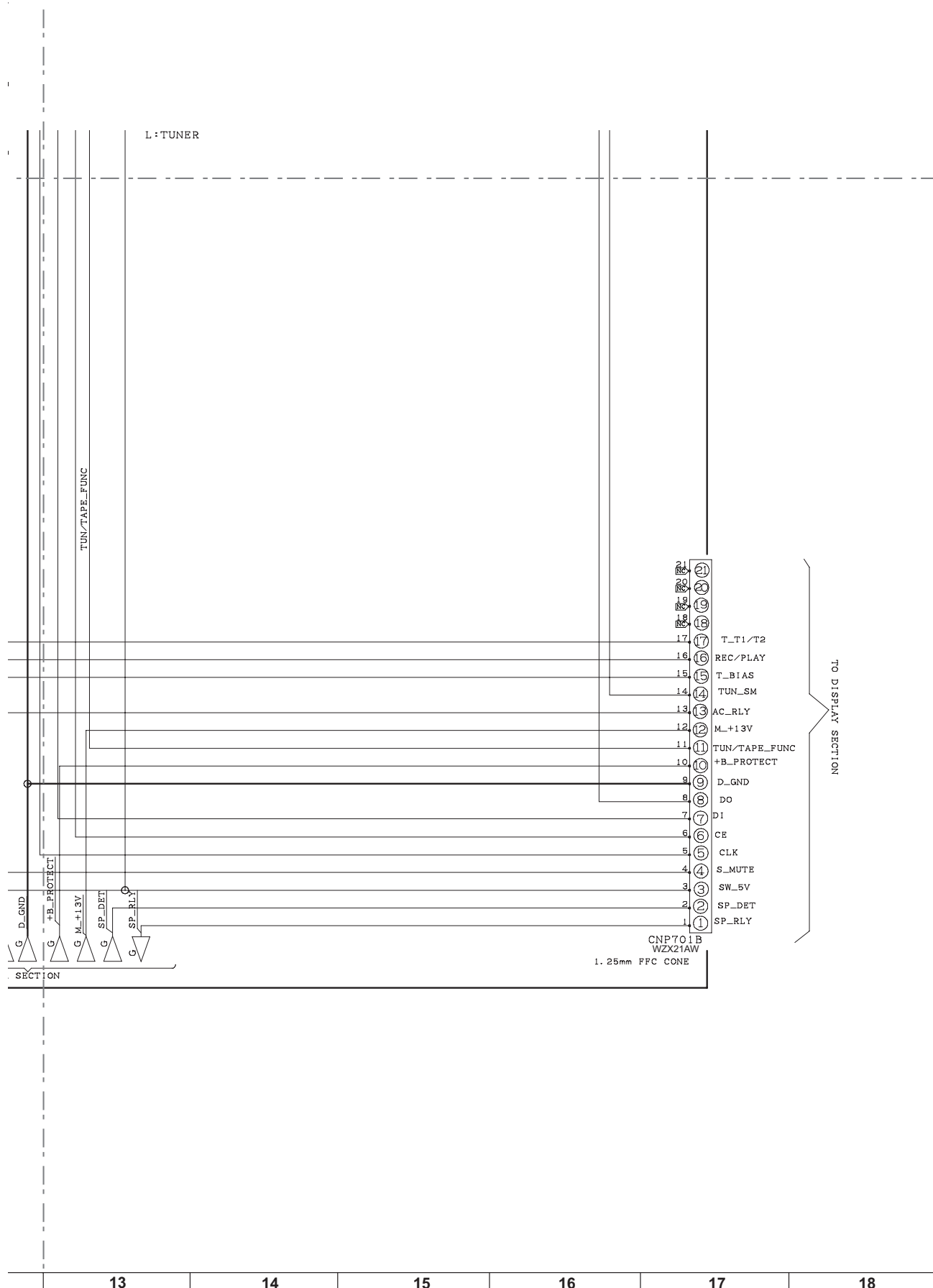


Figure 6-6: MAIN SCHEMATIC DIAGRAM (6/6)



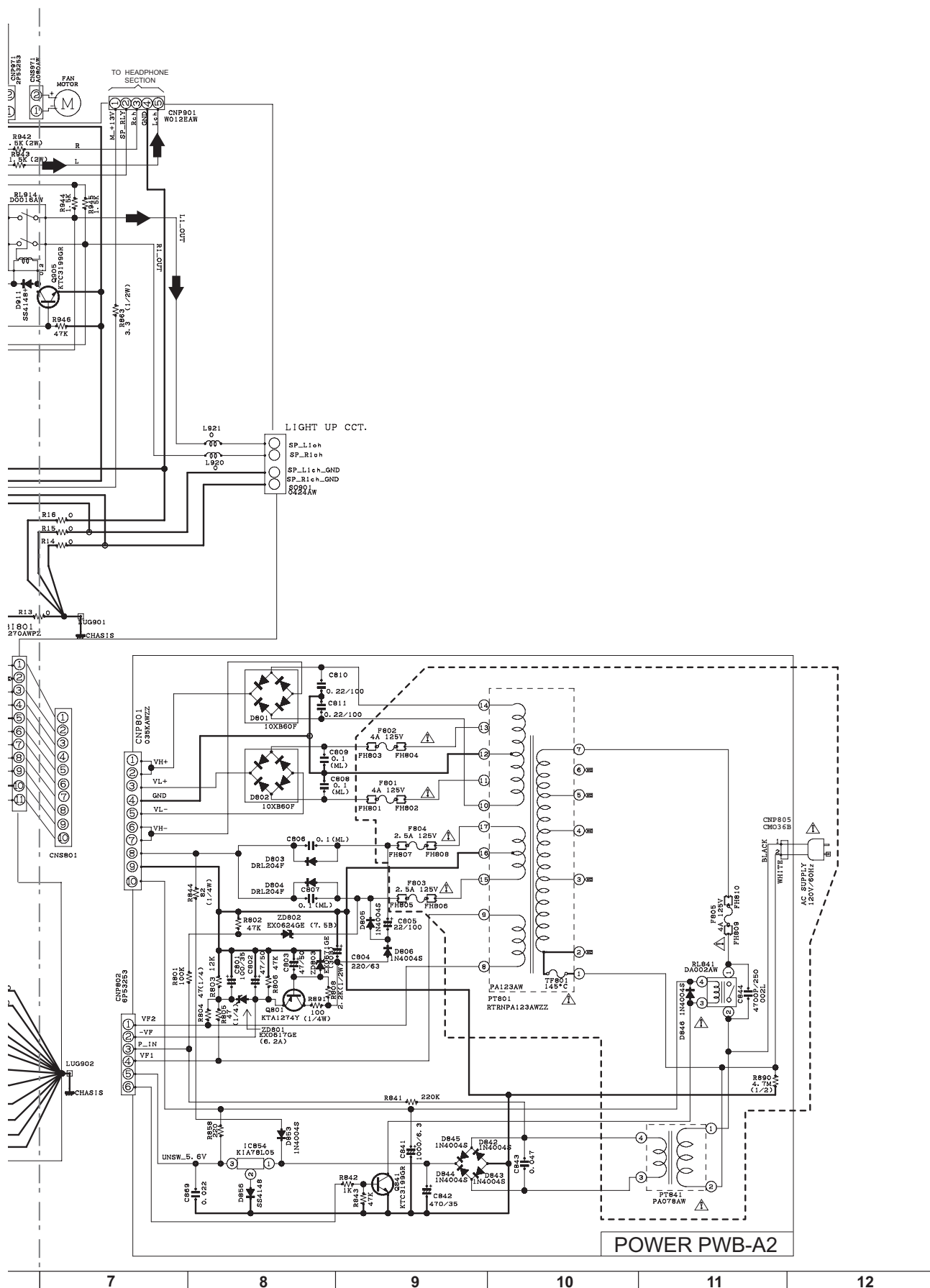


Figure 6-8: POWER SCHEMATIC DIAGRAM (2/2)

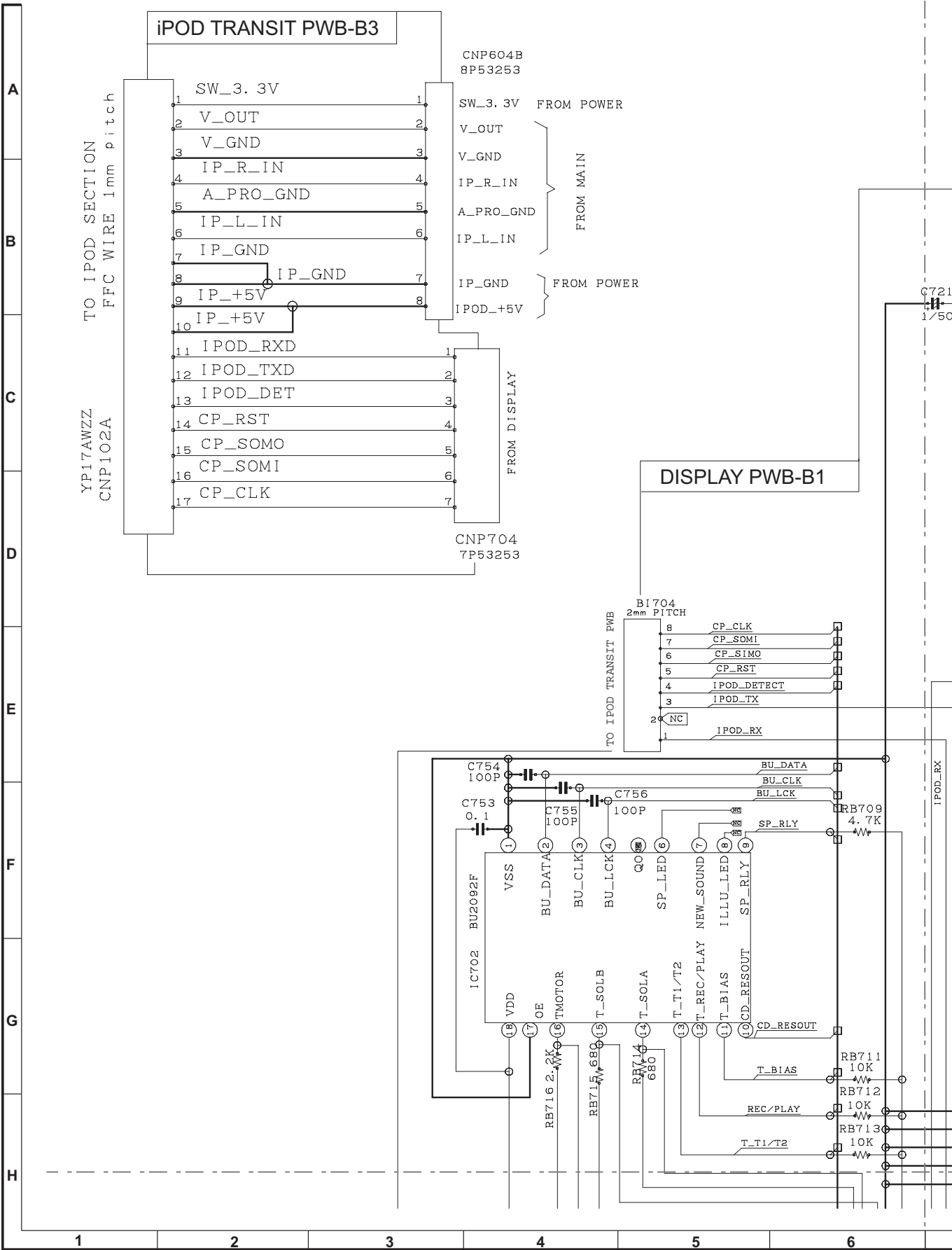


Figure 6-9: DISPLAY SCHEMATIC DIAGRAM (1/6)

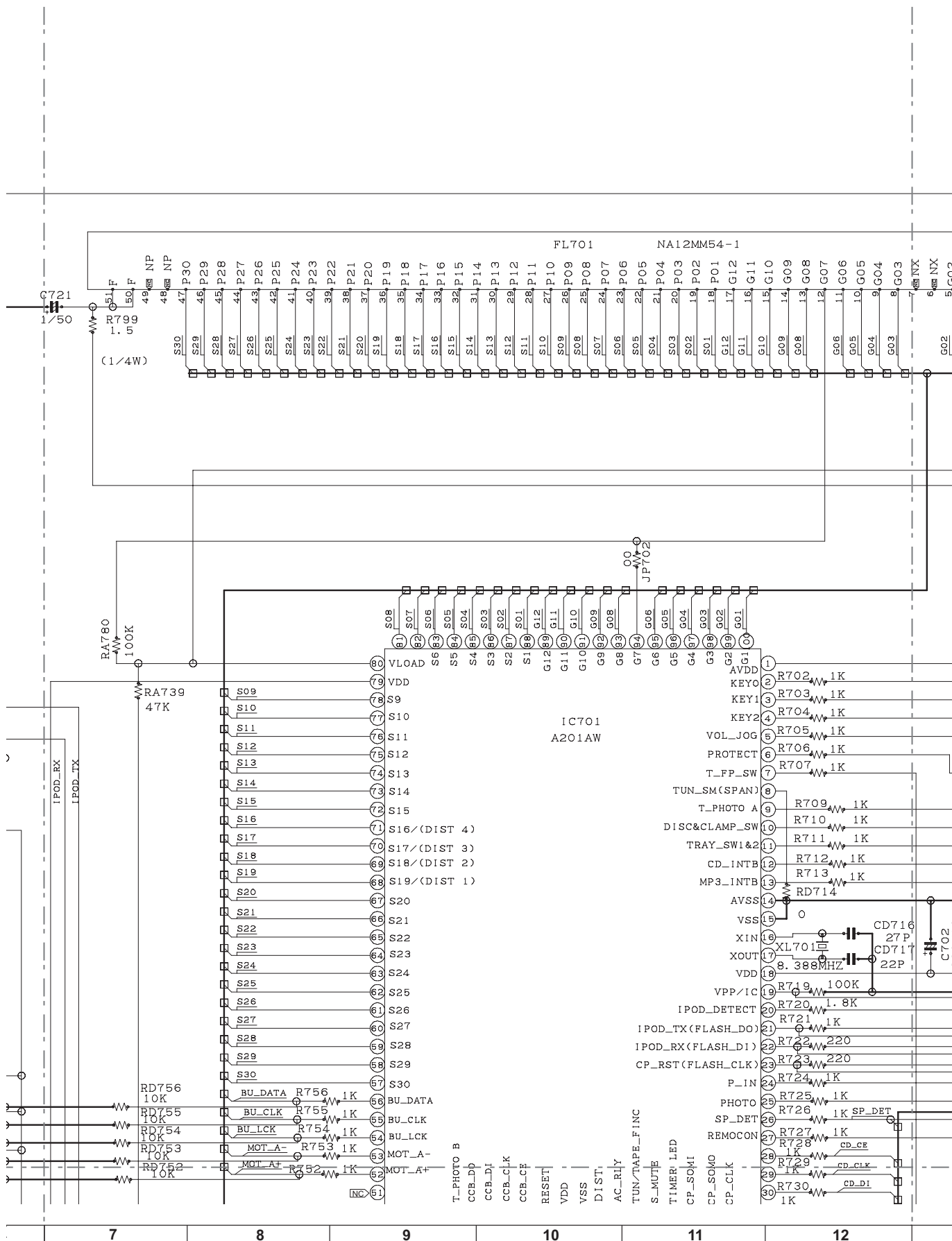


Figure 6-10: DISPLAY SCHEMATIC DIAGRAM (2/6)

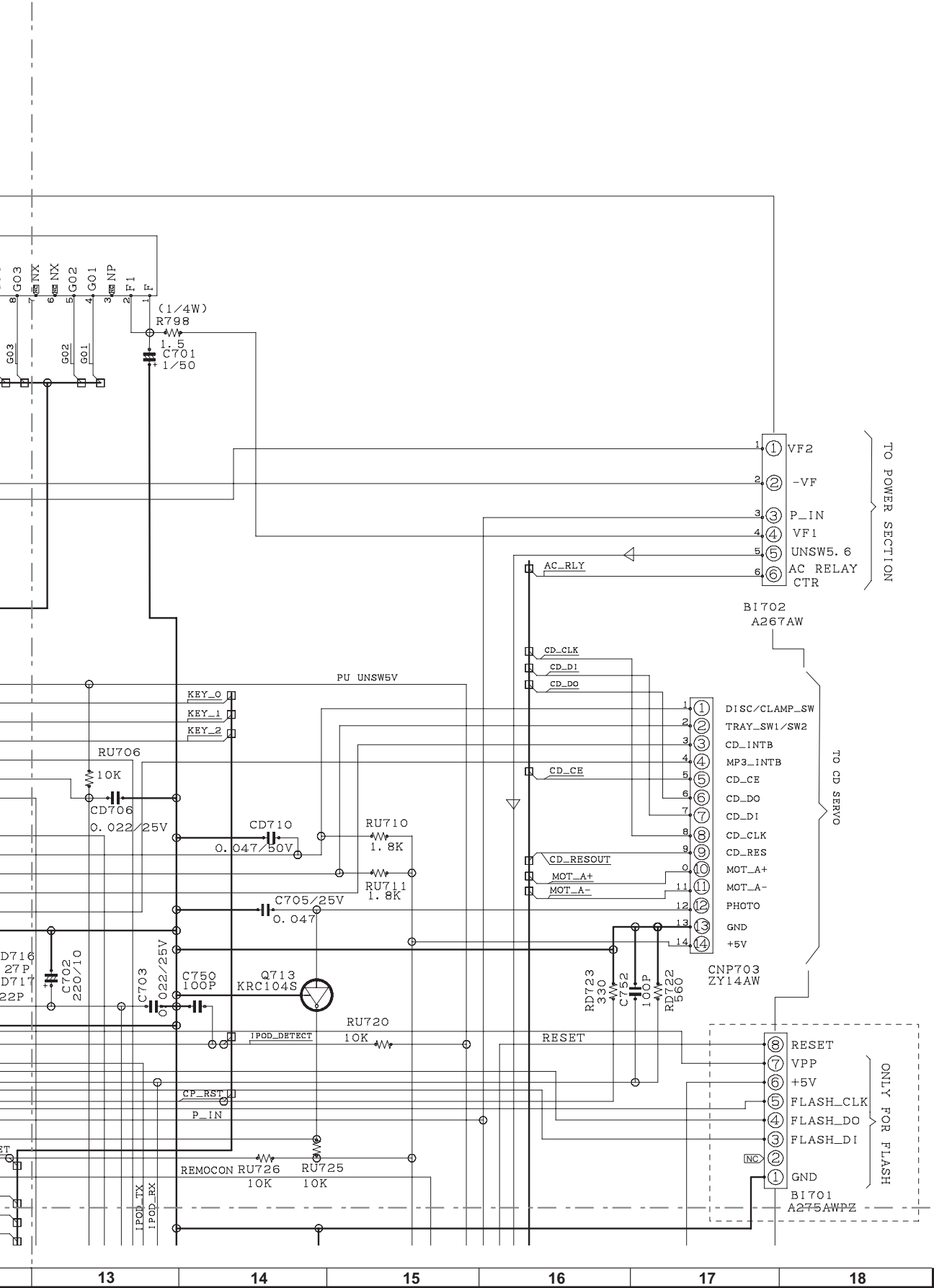


Figure 6-11: DISPLAY SCHEMATIC DIAGRAM (3/6)

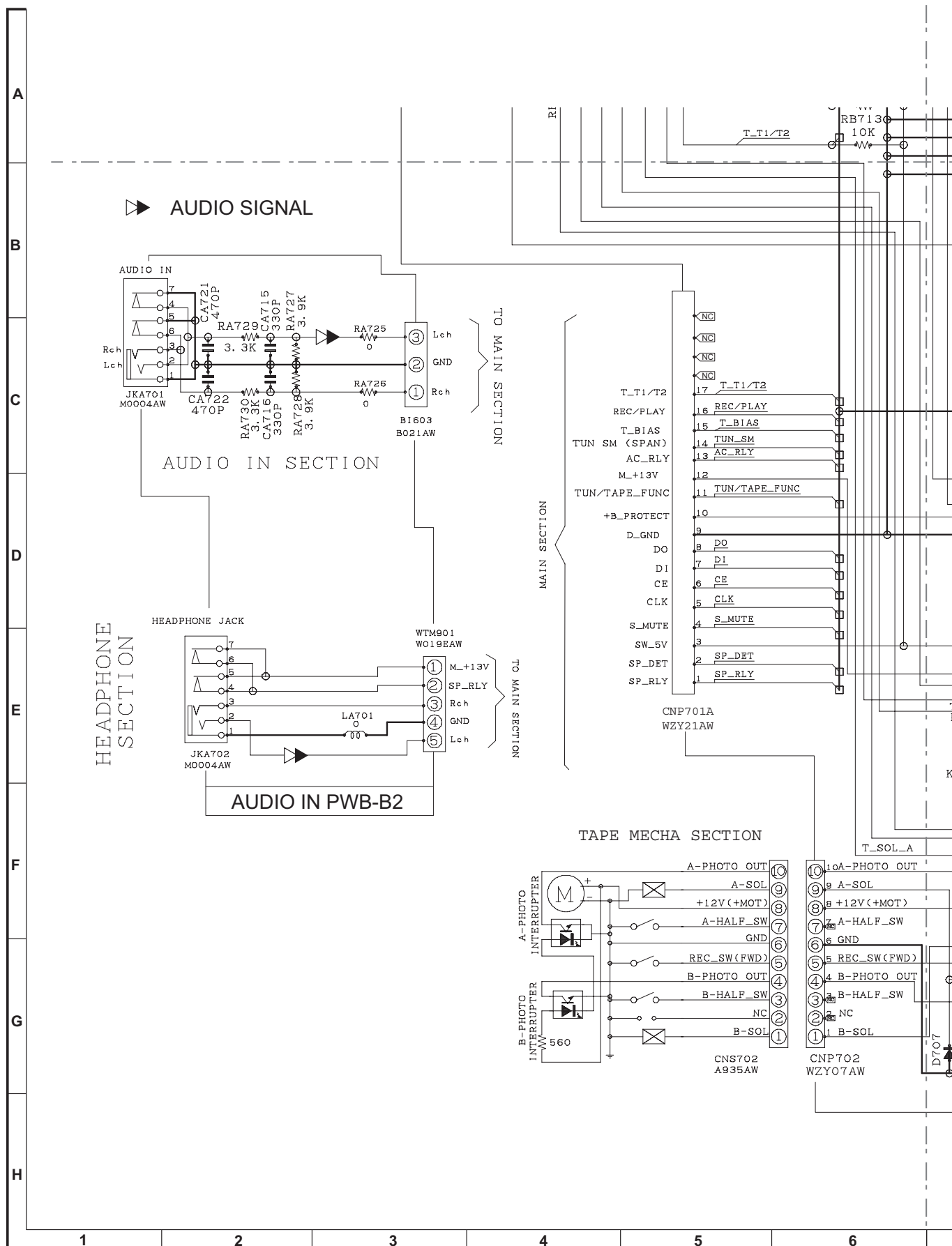


Figure 6-12: DISPLAY SCHEMATIC DIAGRAM (4/6)

6 – 14

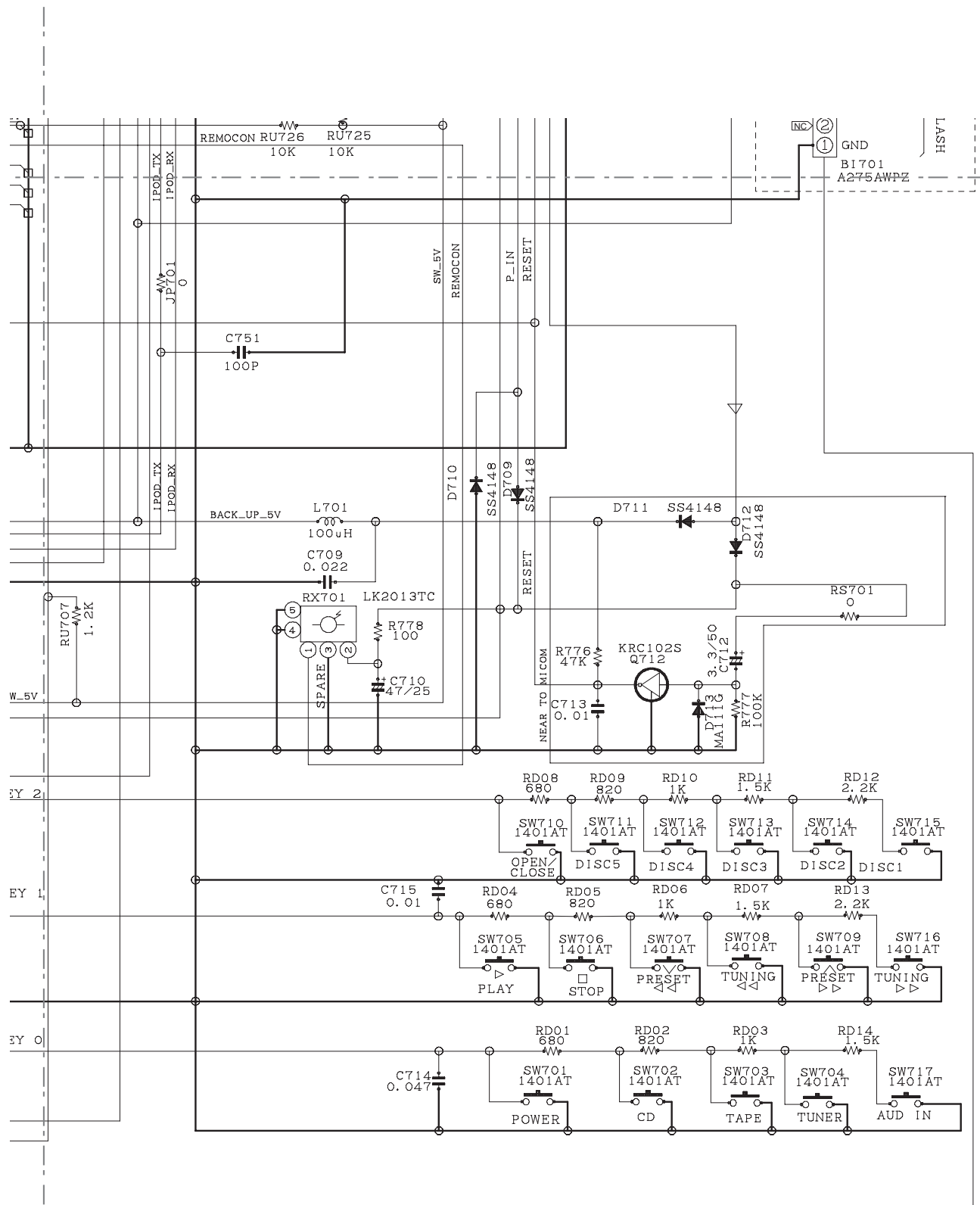


Figure 6-14: DISPLAY SCHEMATIC DIAGRAM (6/6)

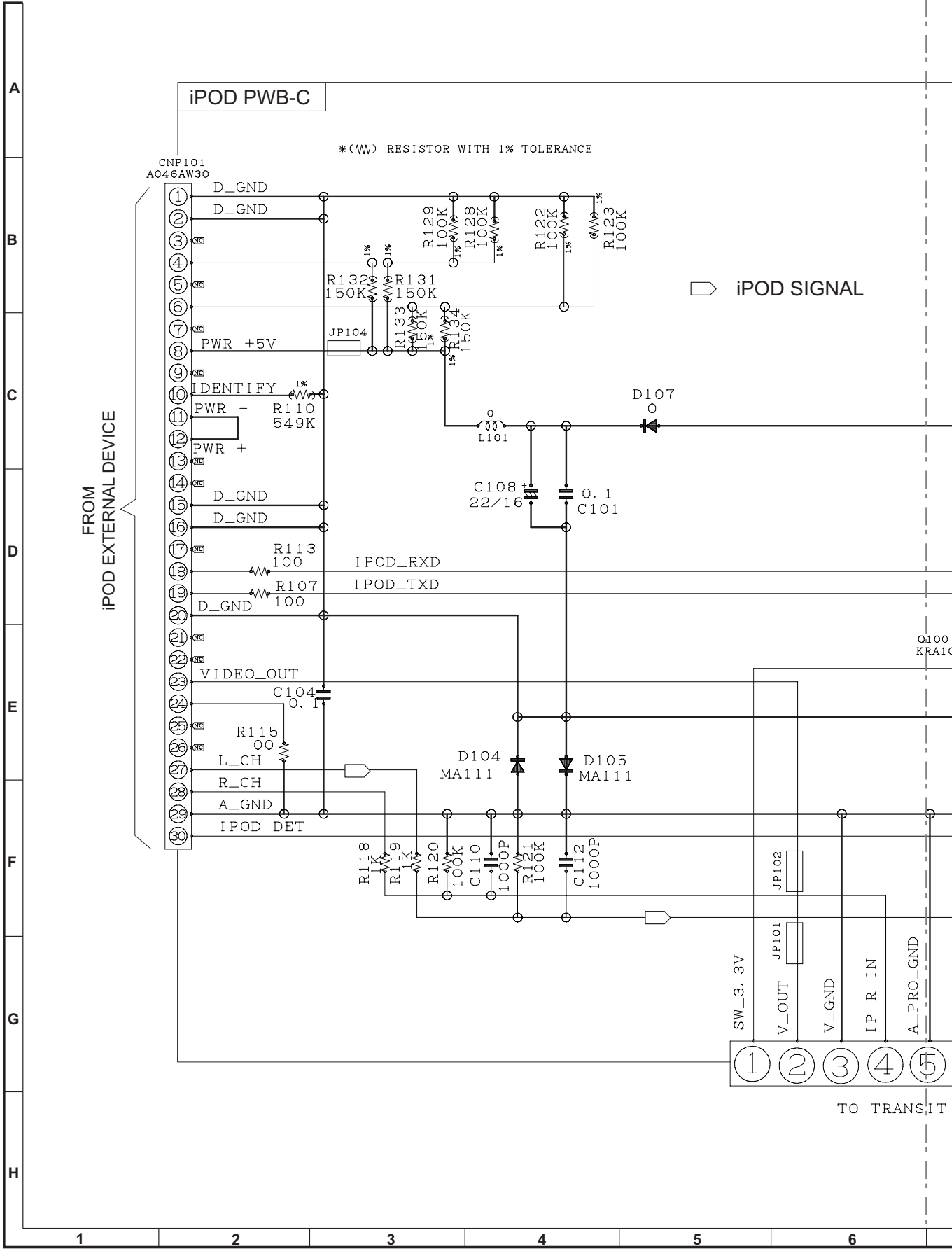


Figure 6-15: iPOD SCHEMATIC DIAGRAM (1/2)

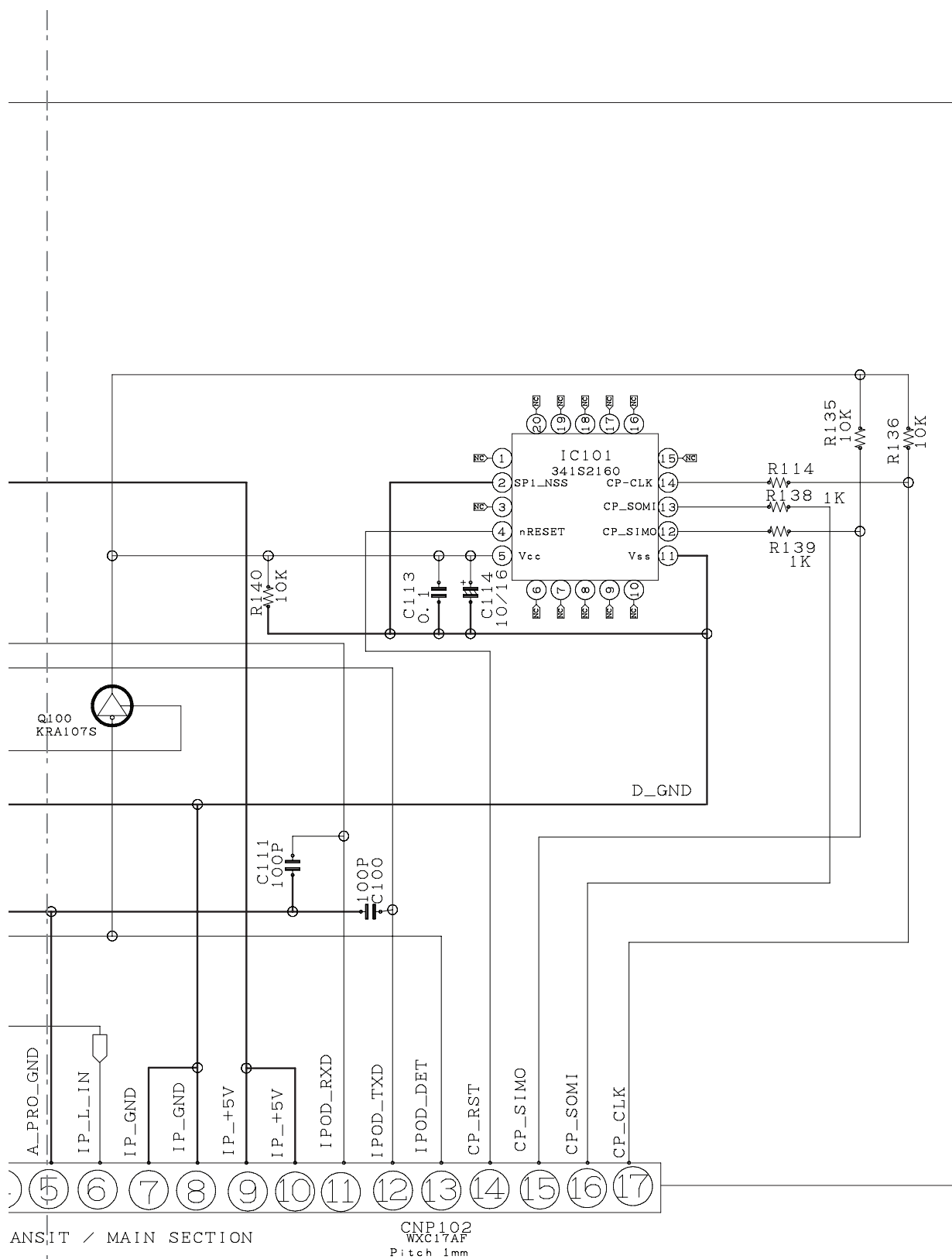


Figure 6-16: iPod SCHEMATIC DIAGRAM (2/2)

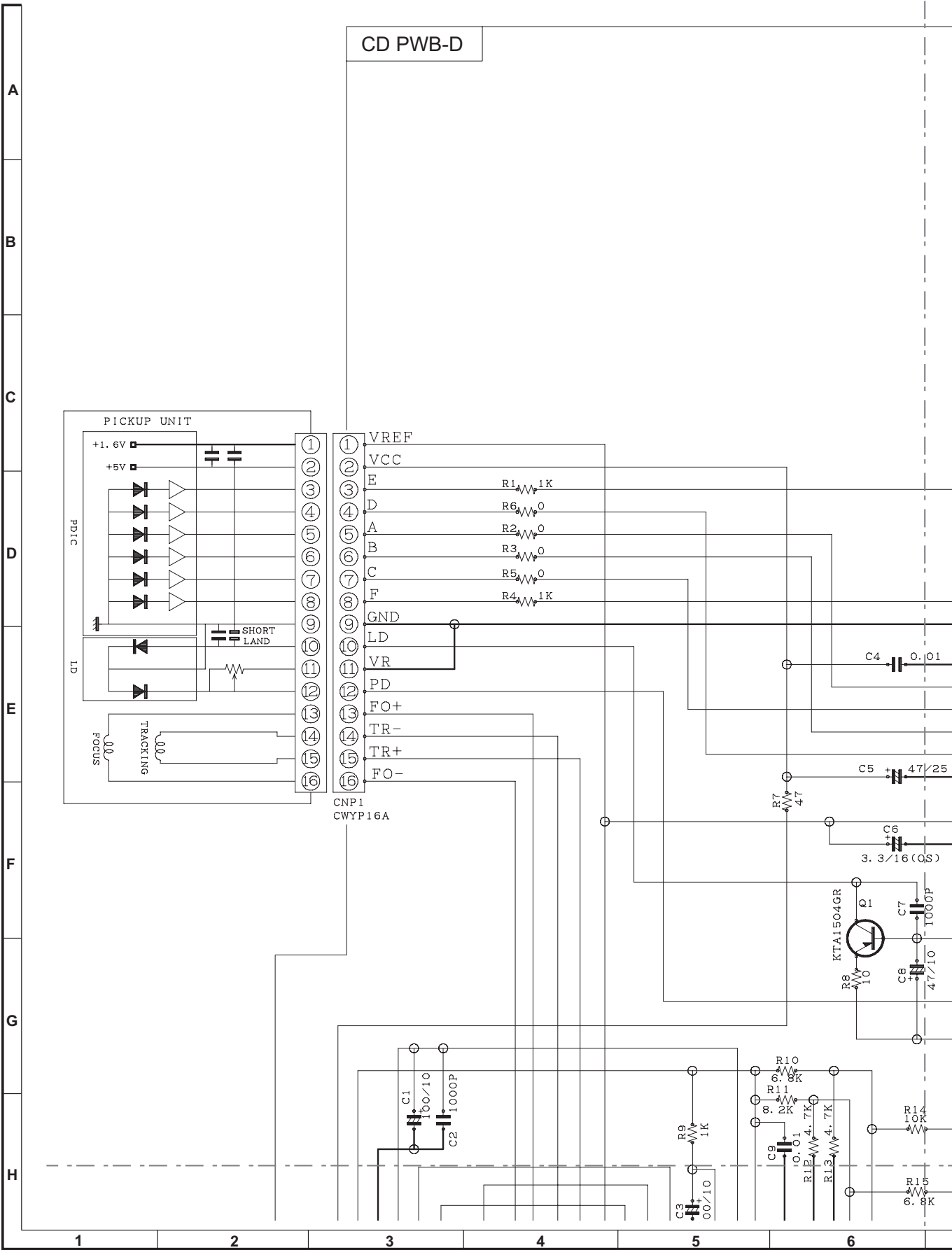


Figure 6-17: CD SCHEMATIC DIAGRAM (1/6)

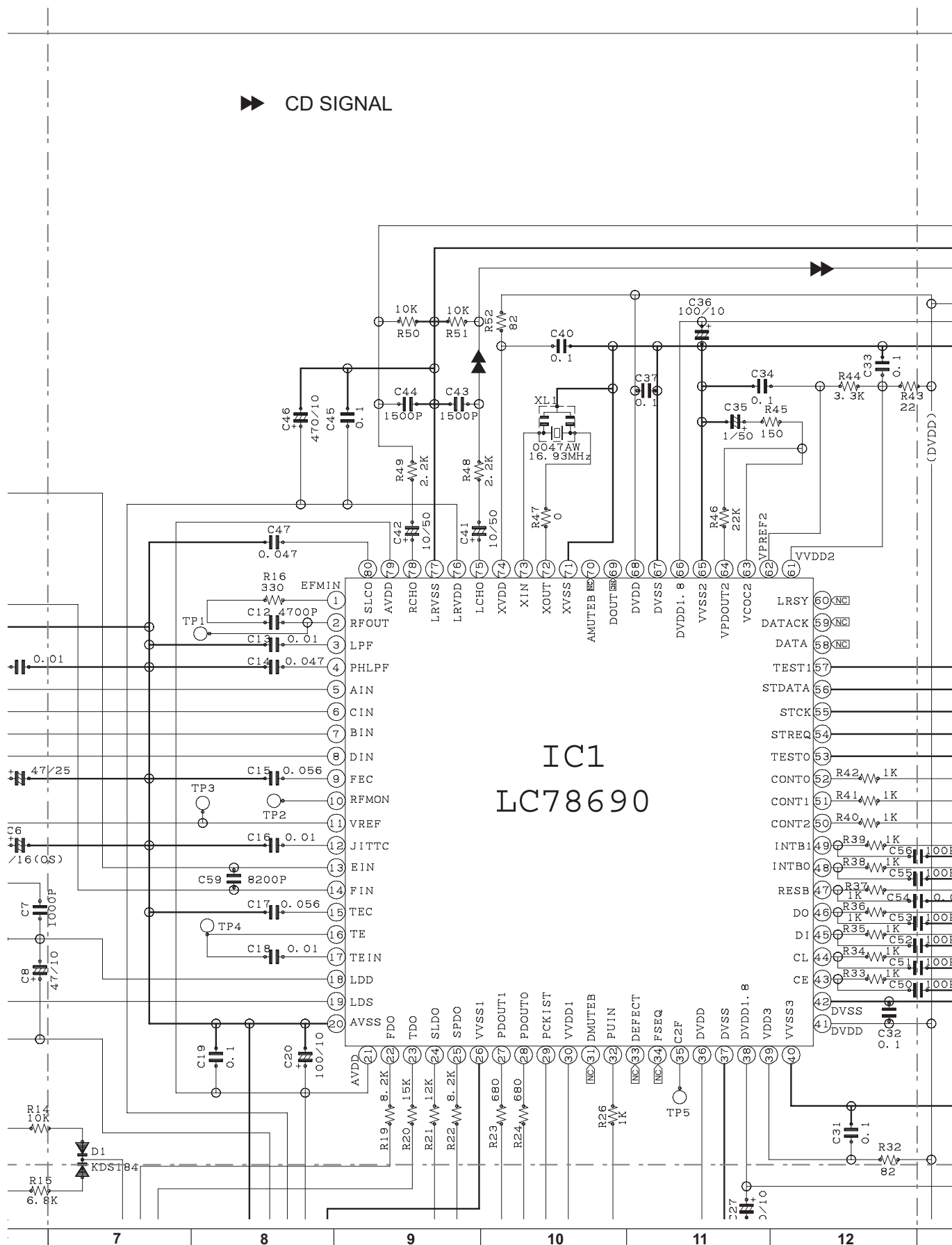


Figure 6-18: CD SCHEMATIC DIAGRAM (2/6)

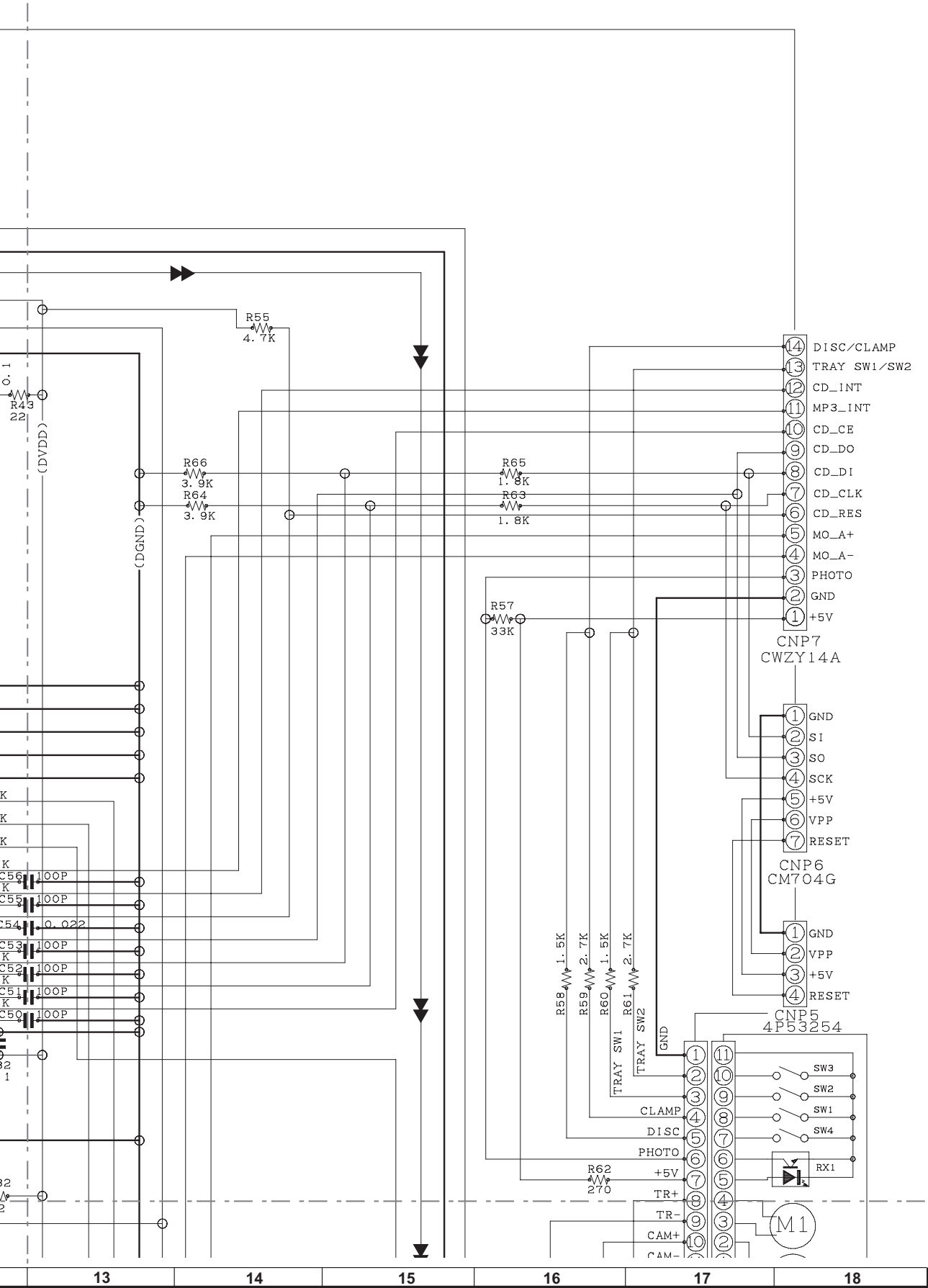


Figure 6-19: CD SCHEMATIC DIAGRAM (3/6)

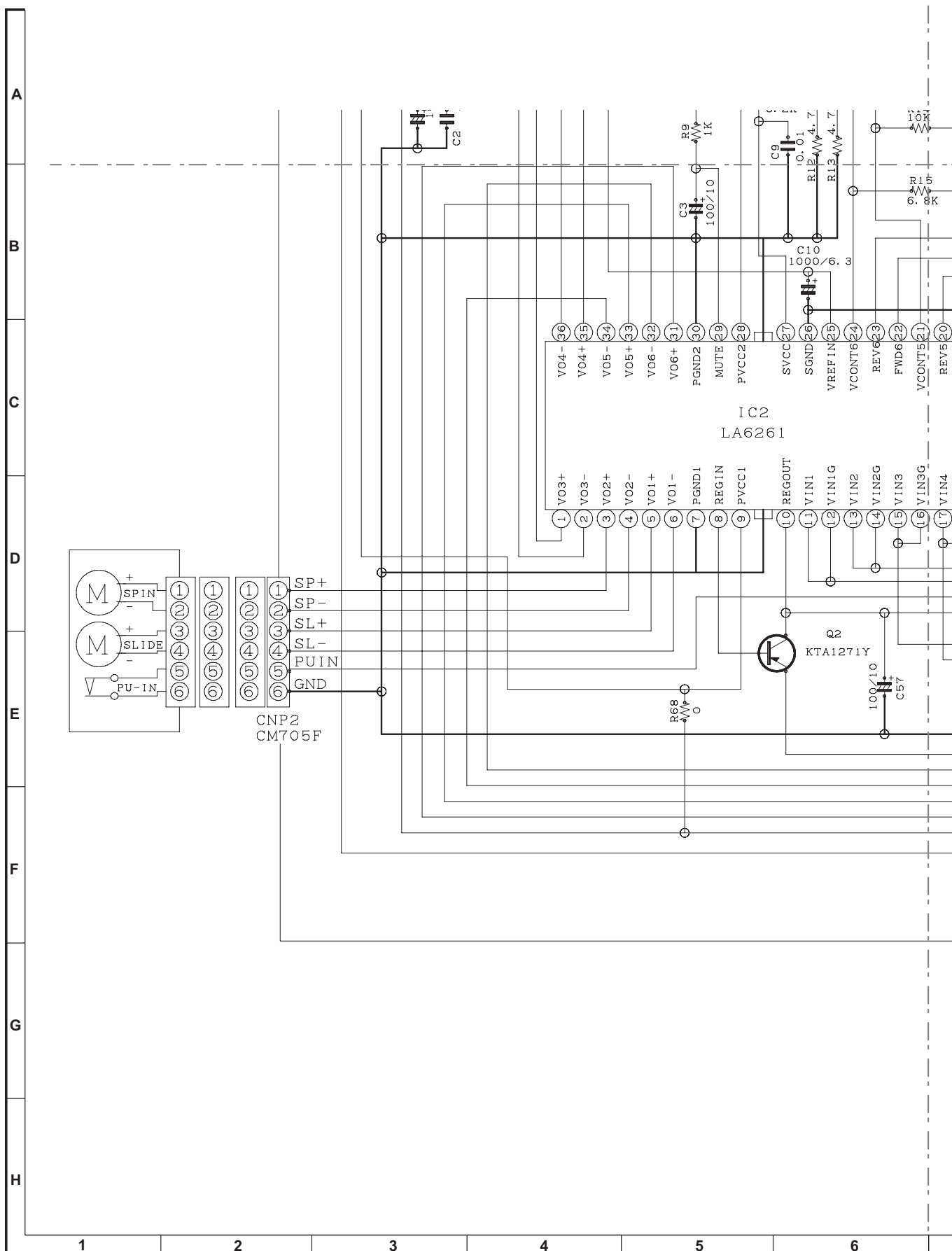


Figure 6-20: CD SCHEMATIC DIAGRAM (4/6)

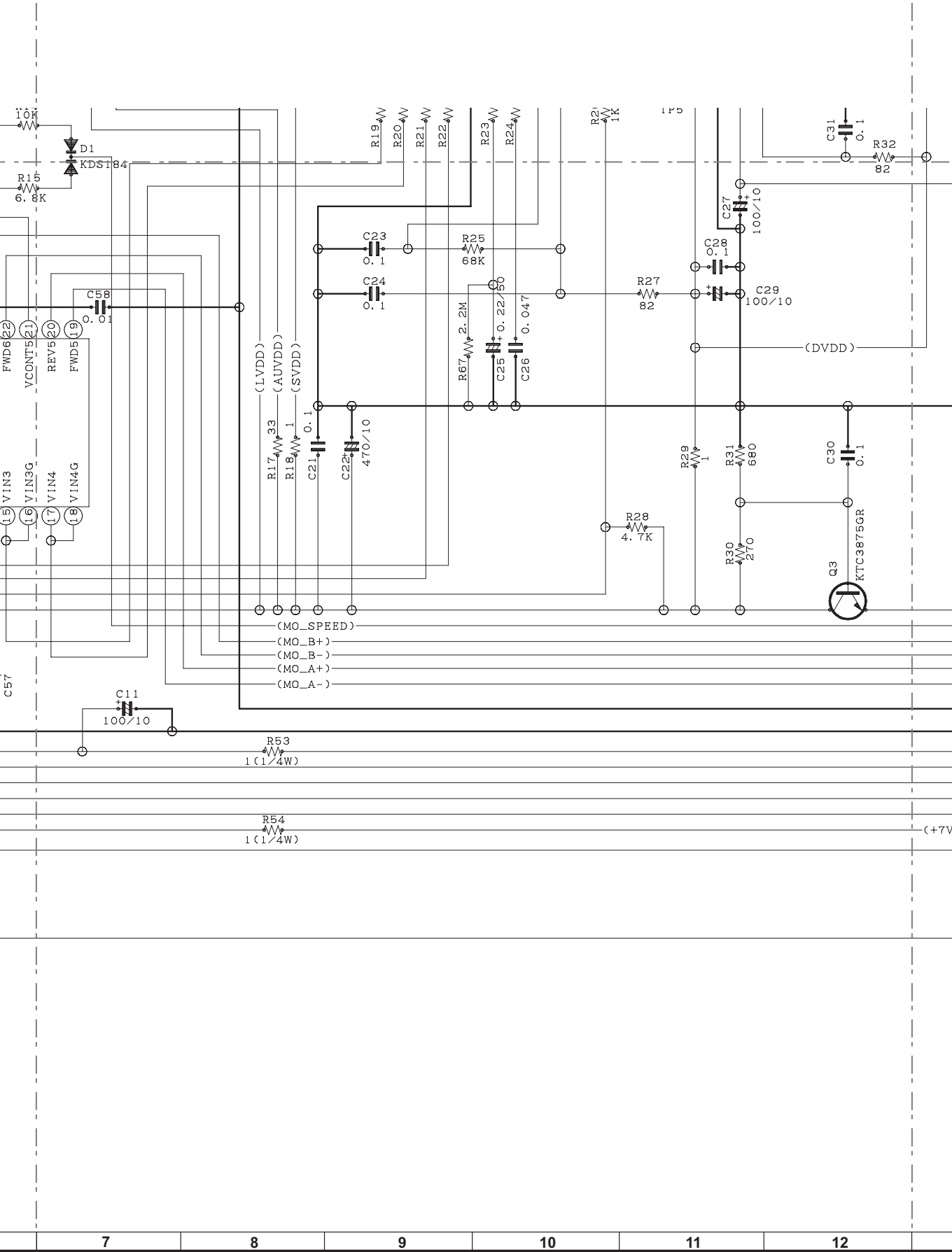


Figure 6-21: CD SCHEMATIC DIAGRAM (5/6)

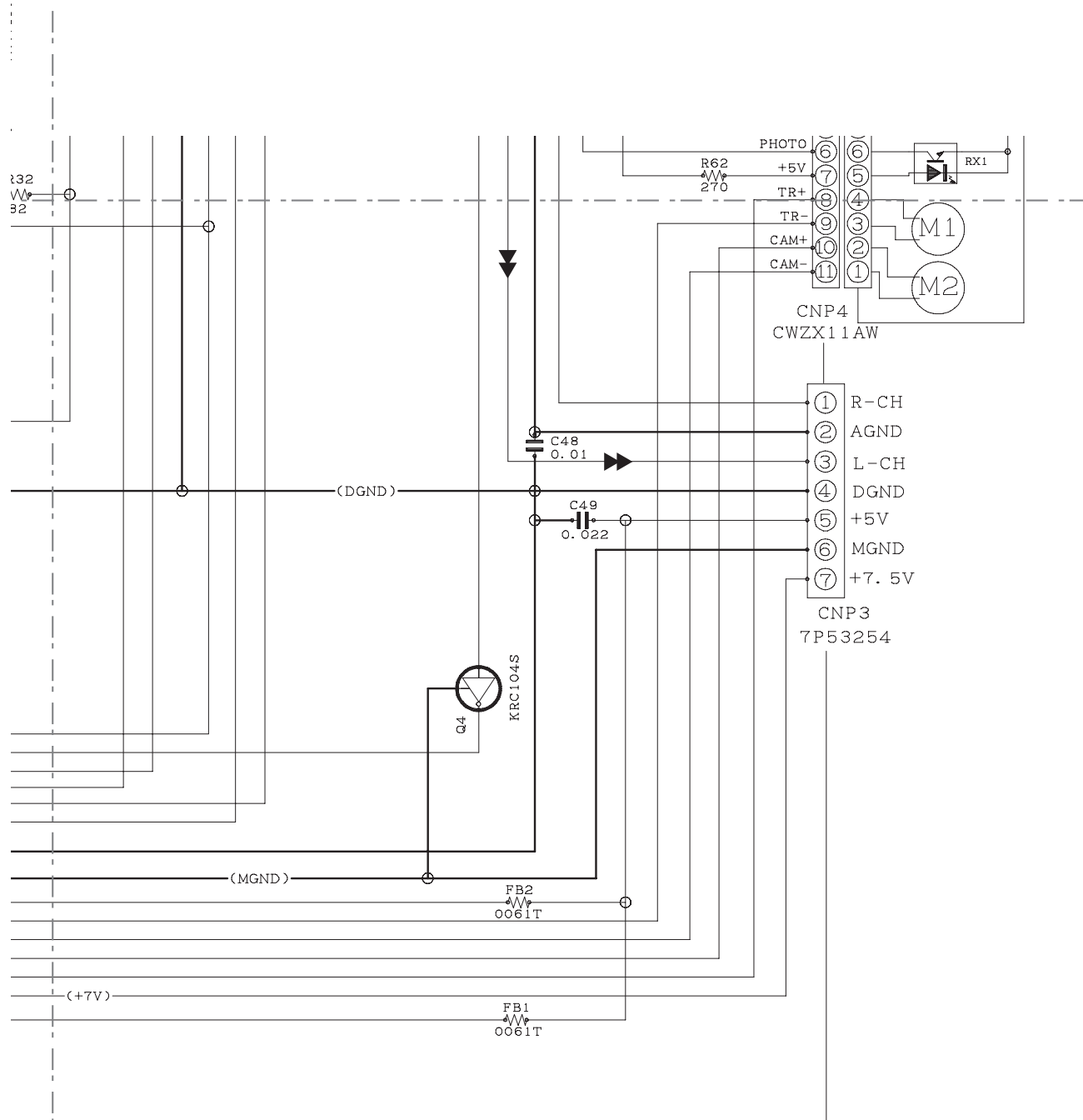
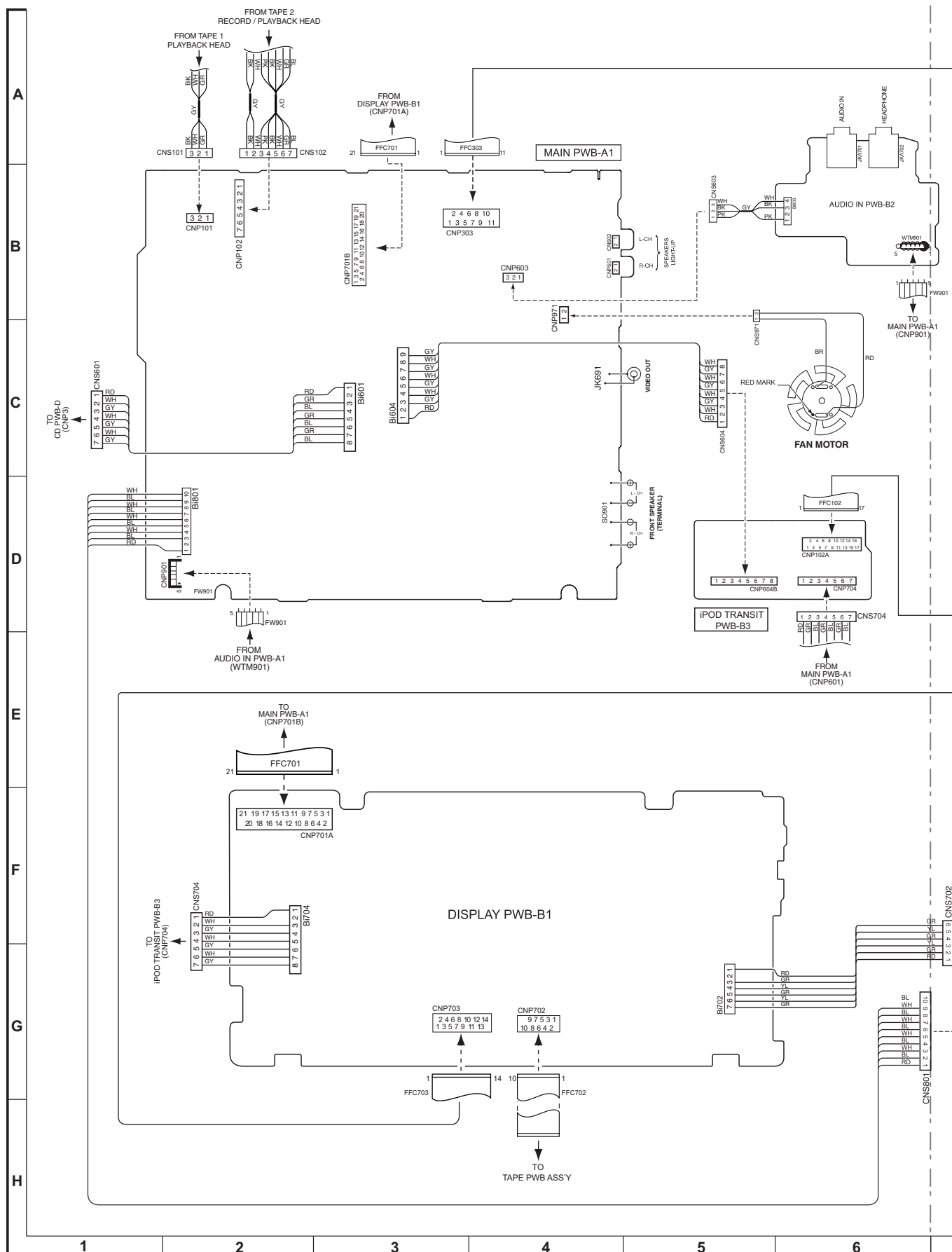


Figure 6-22: CD SCHEMATIC DIAGRAM (6/6)



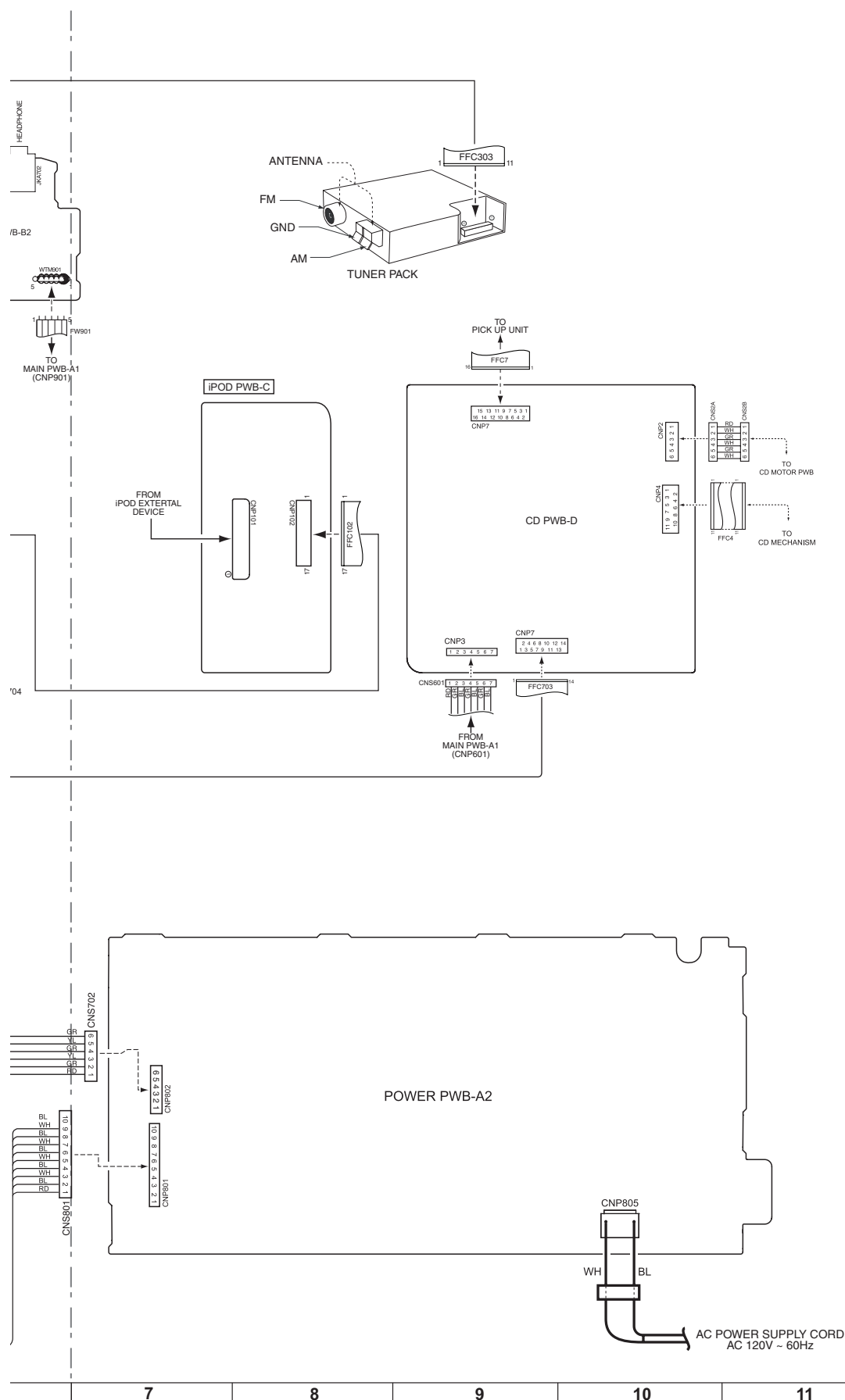


Figure 6-24: WIRING CONNECTION (2/2)



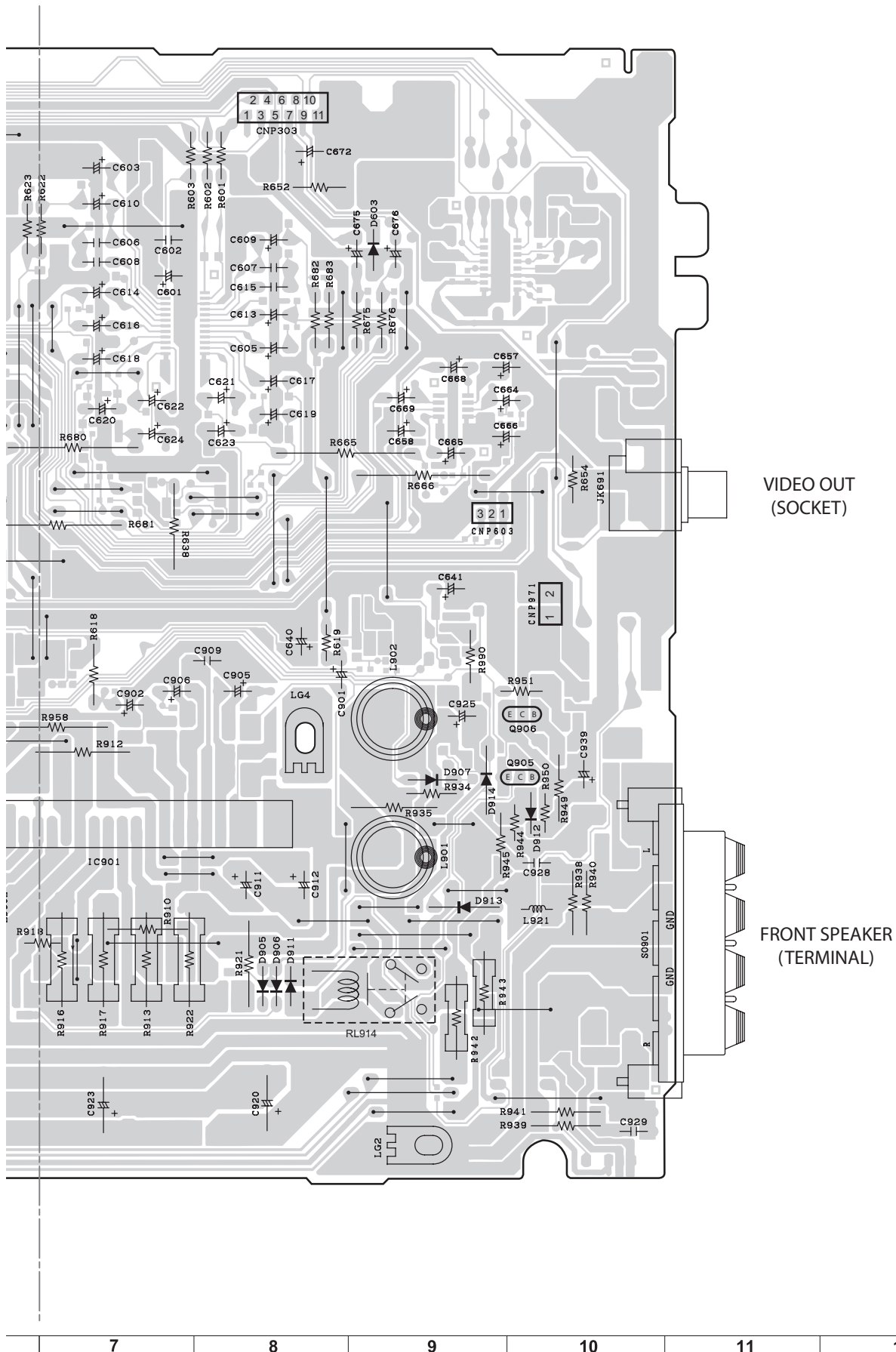


Figure 6-26: WIRING SIDE OF MAIN PWB (TOP VIEW) (2/2)

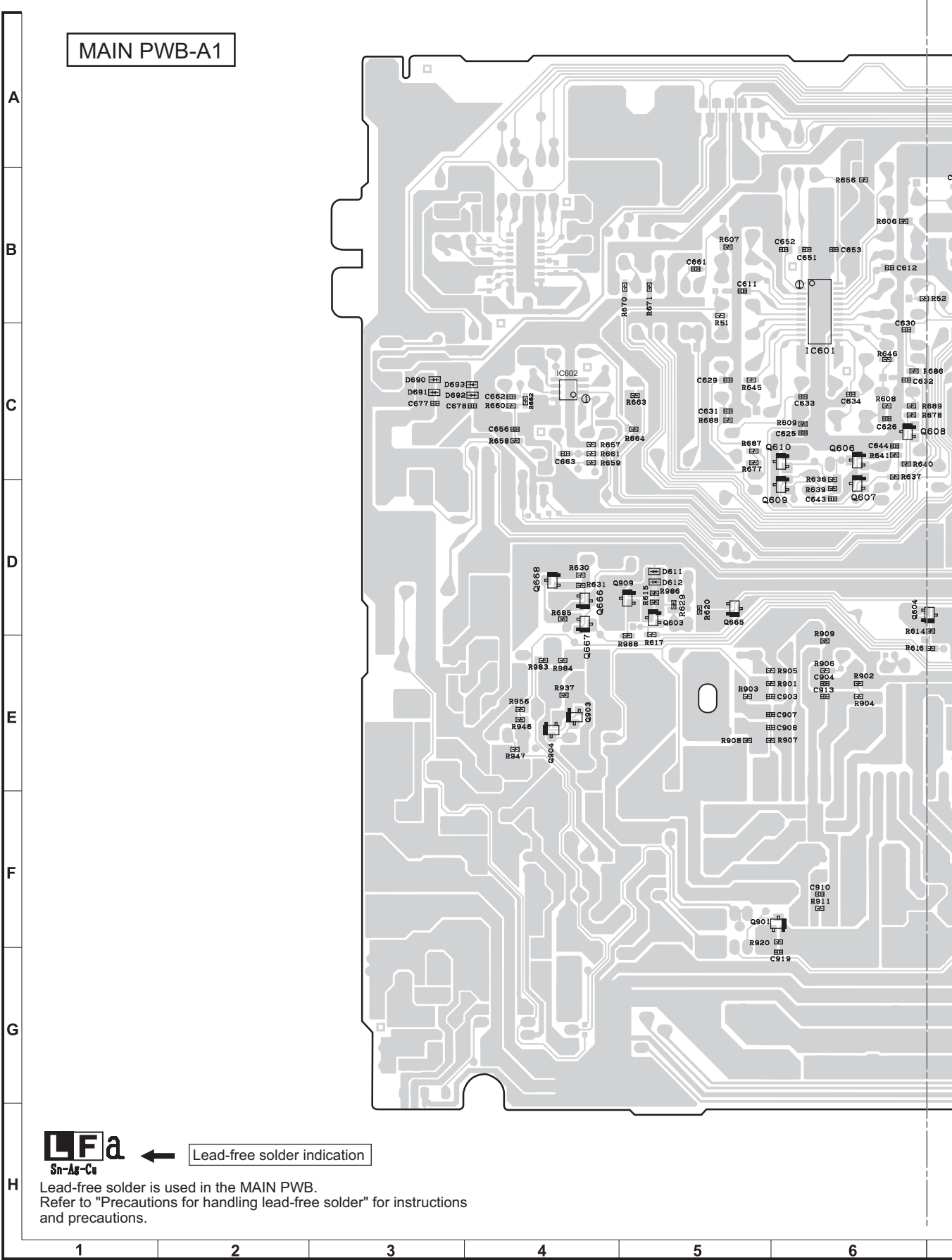


Figure 6-27: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (1/2)

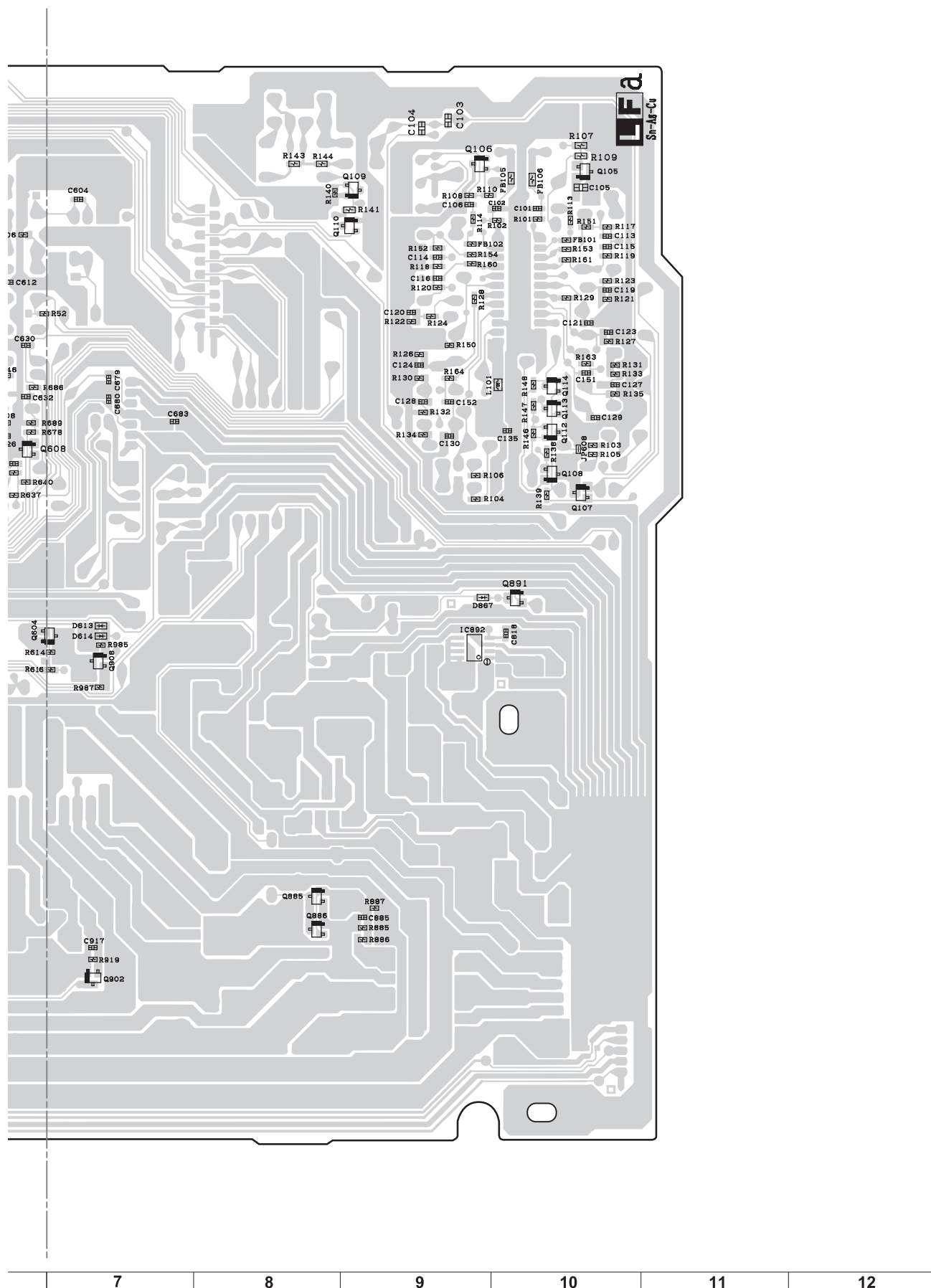
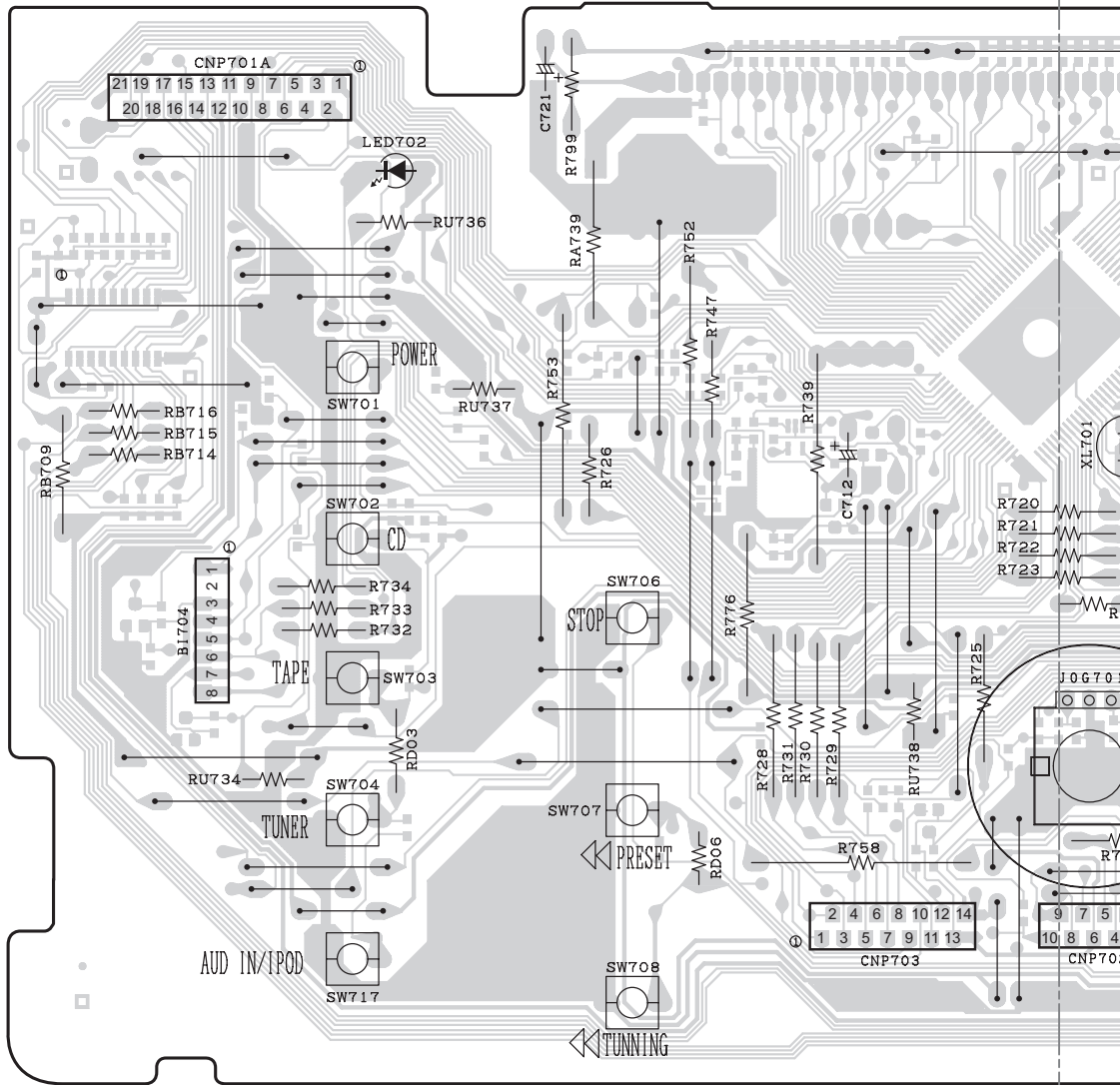


Figure 6-28: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (2/2)

6 – 30

-MEMO-

DISPLAY PWB-B1



Lead-free solder indication

Lead-free solder is used in the DISPLAY PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-30: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (1/2)

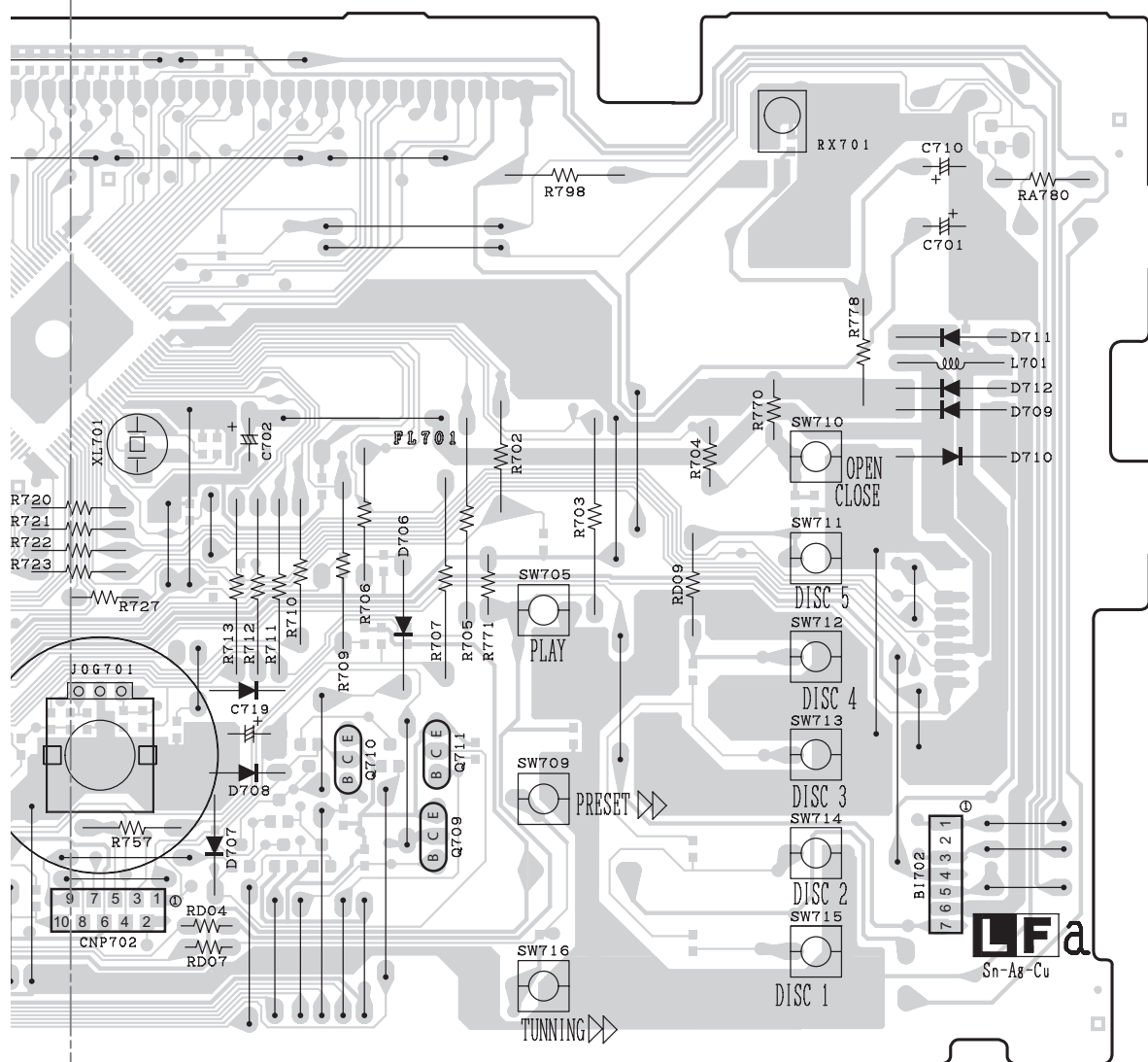


Figure 6-31: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (2/2)

6 - 34

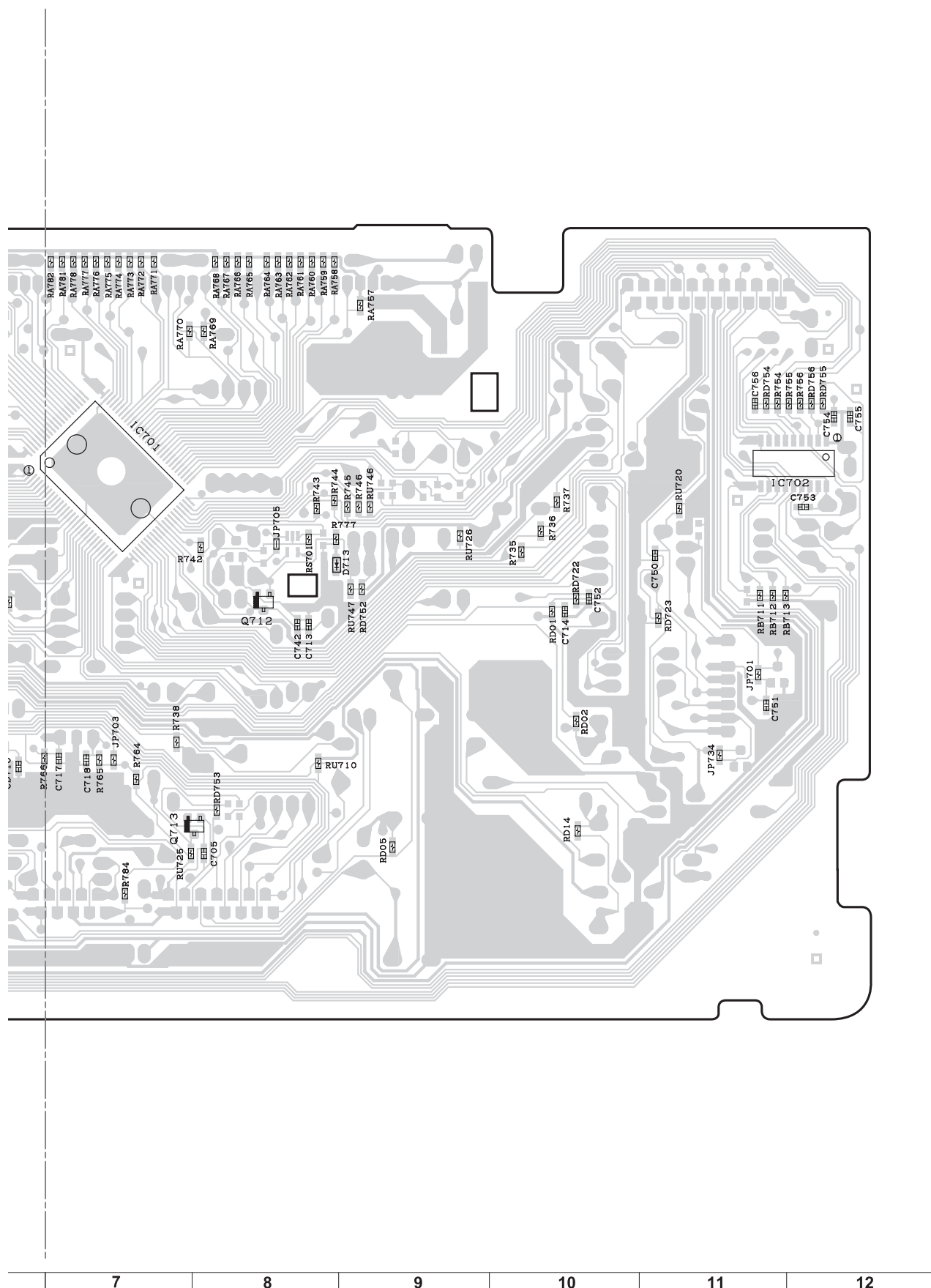


Figure 6-33: WIRING SIDE OF DISPLAY PWB (BOTTOM VIEW) (2/2)

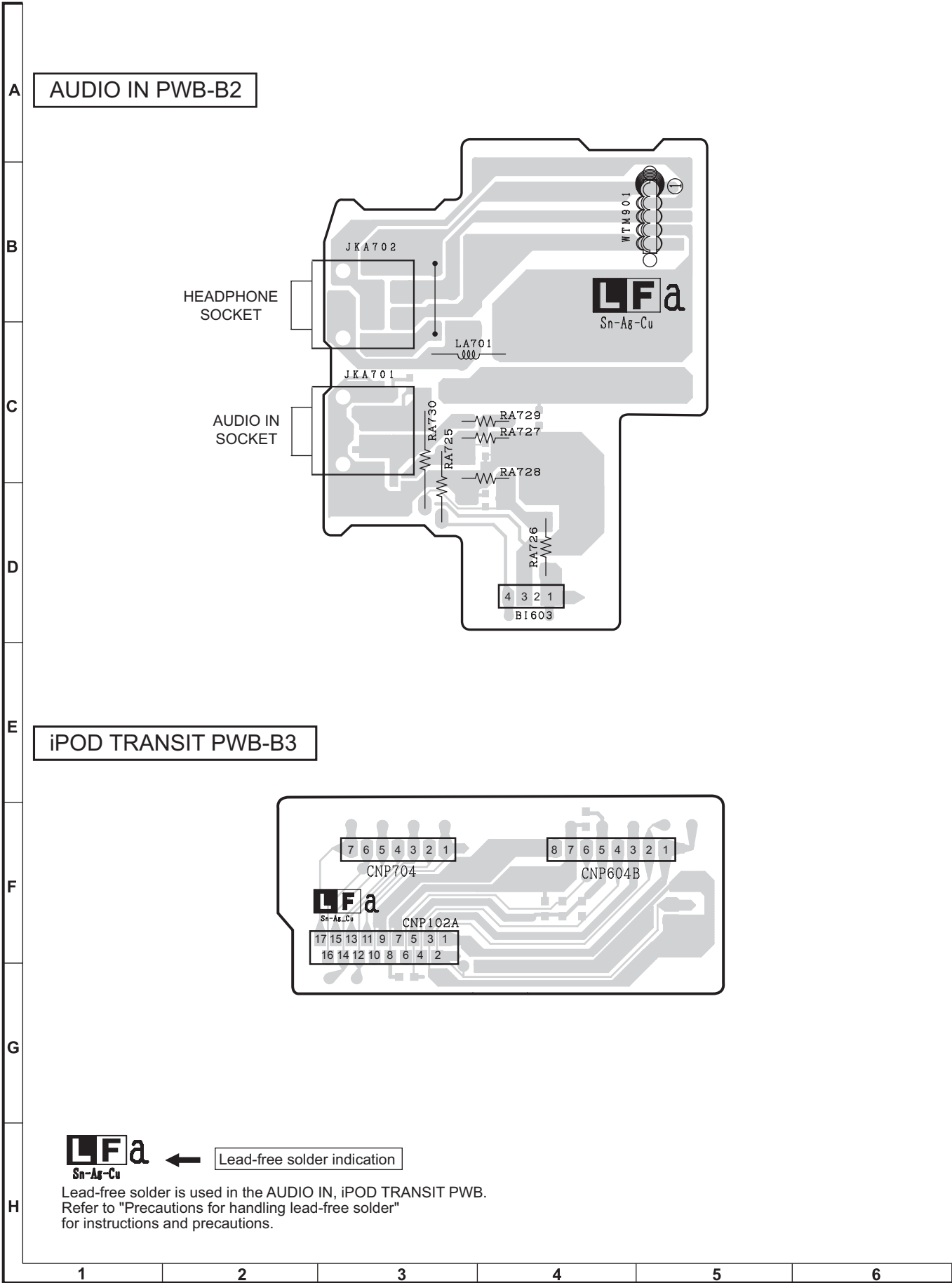


Figure 6-34: WIRING SIDE OF AUDIO IN & iPOD TRANSIT PWB (TOP VIEW)

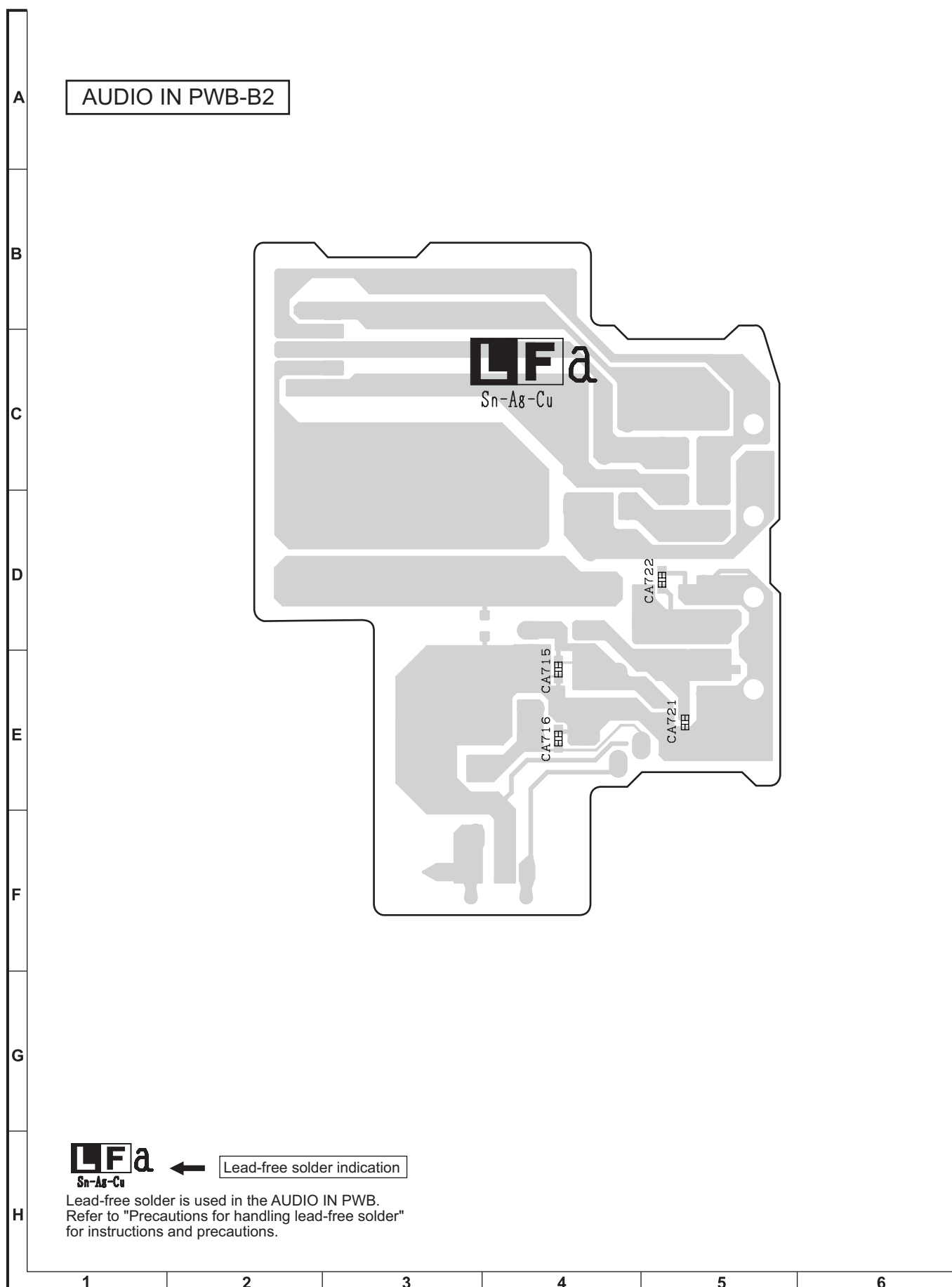


Figure 6-35: WIRING SIDE OF AUDIO IN PWB (BOTTOM VIEW)

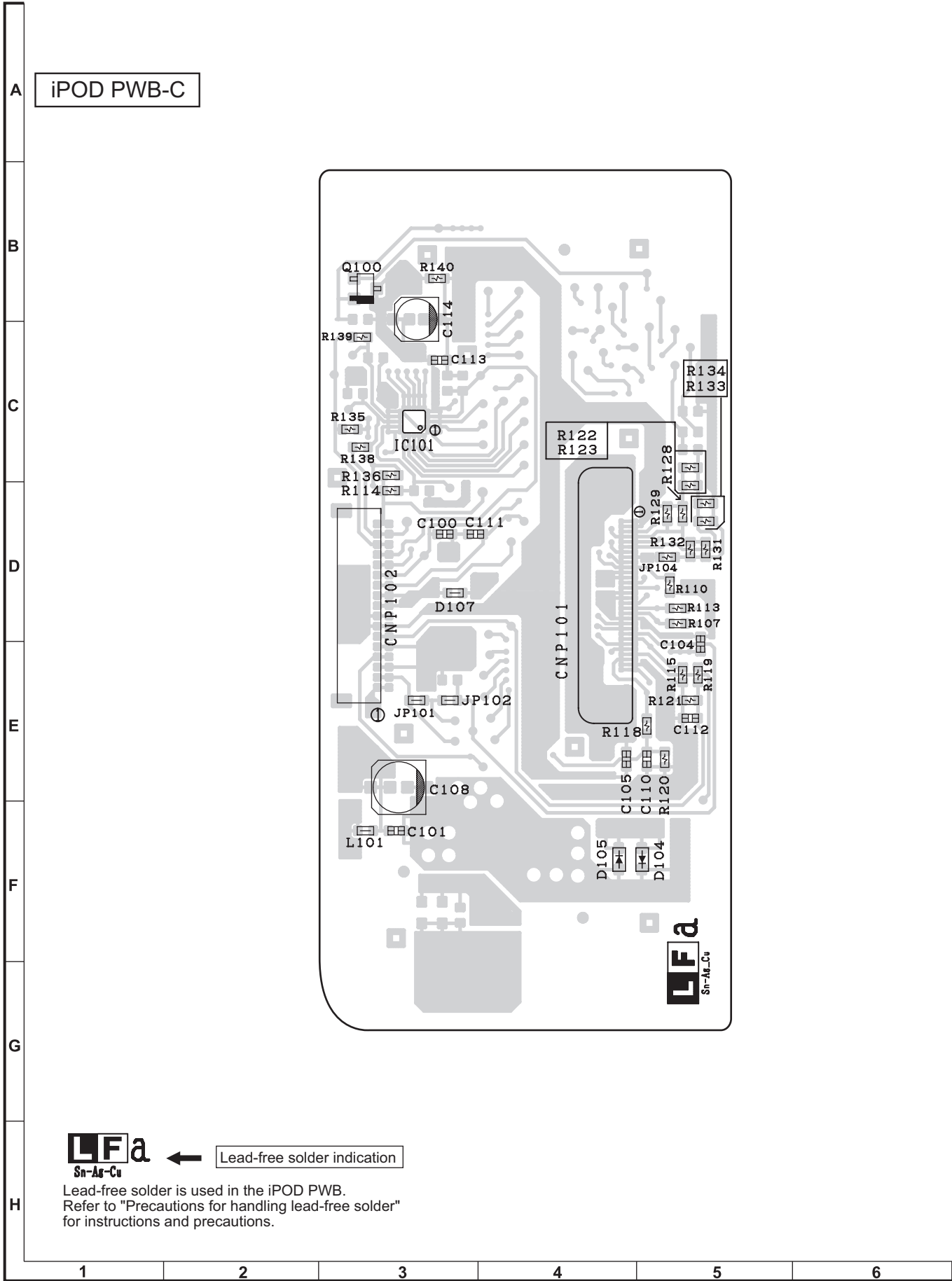
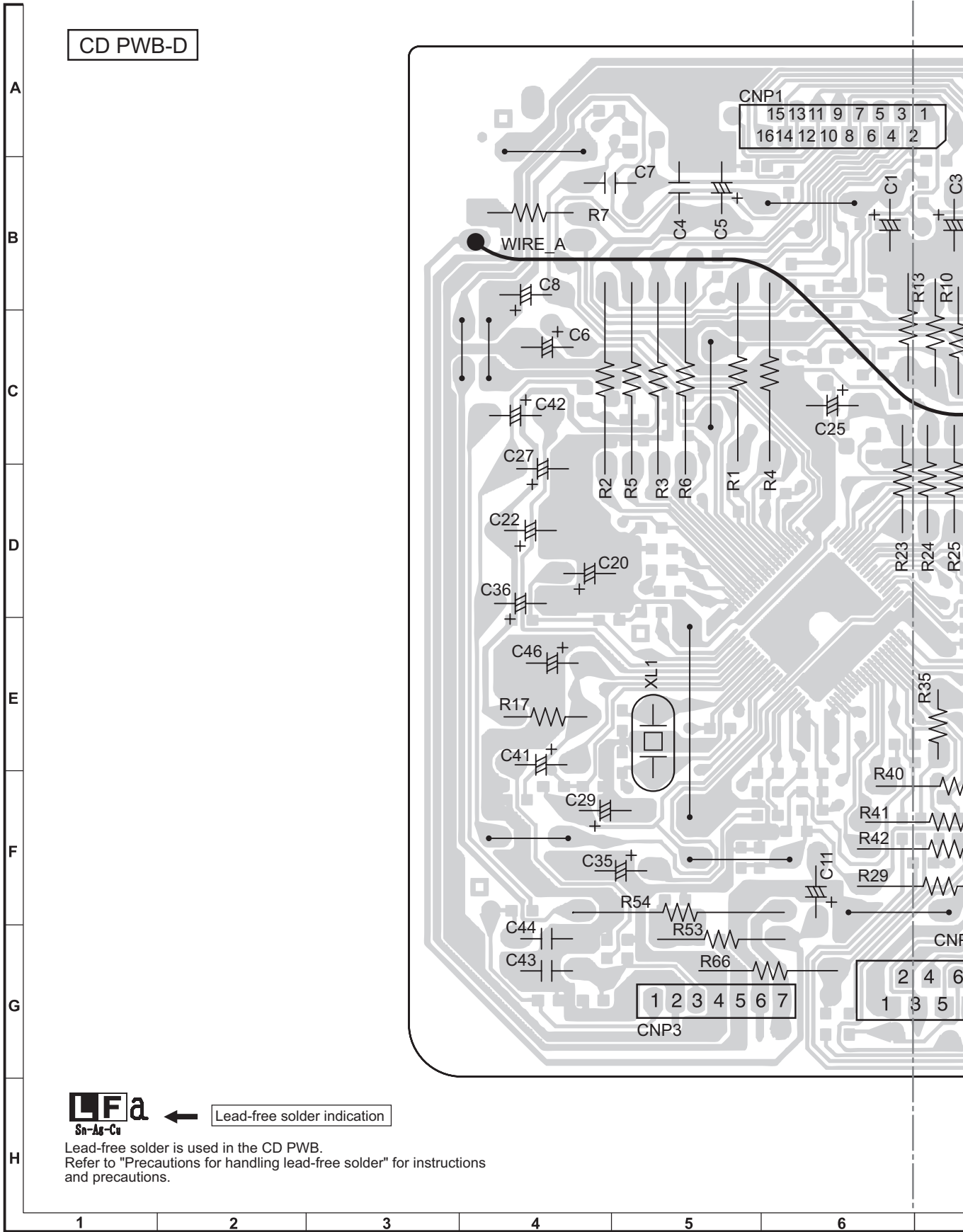


Figure 6-36: WIRING SIDE OF IPOD PWB (TOP VIEW)

-MEMO-



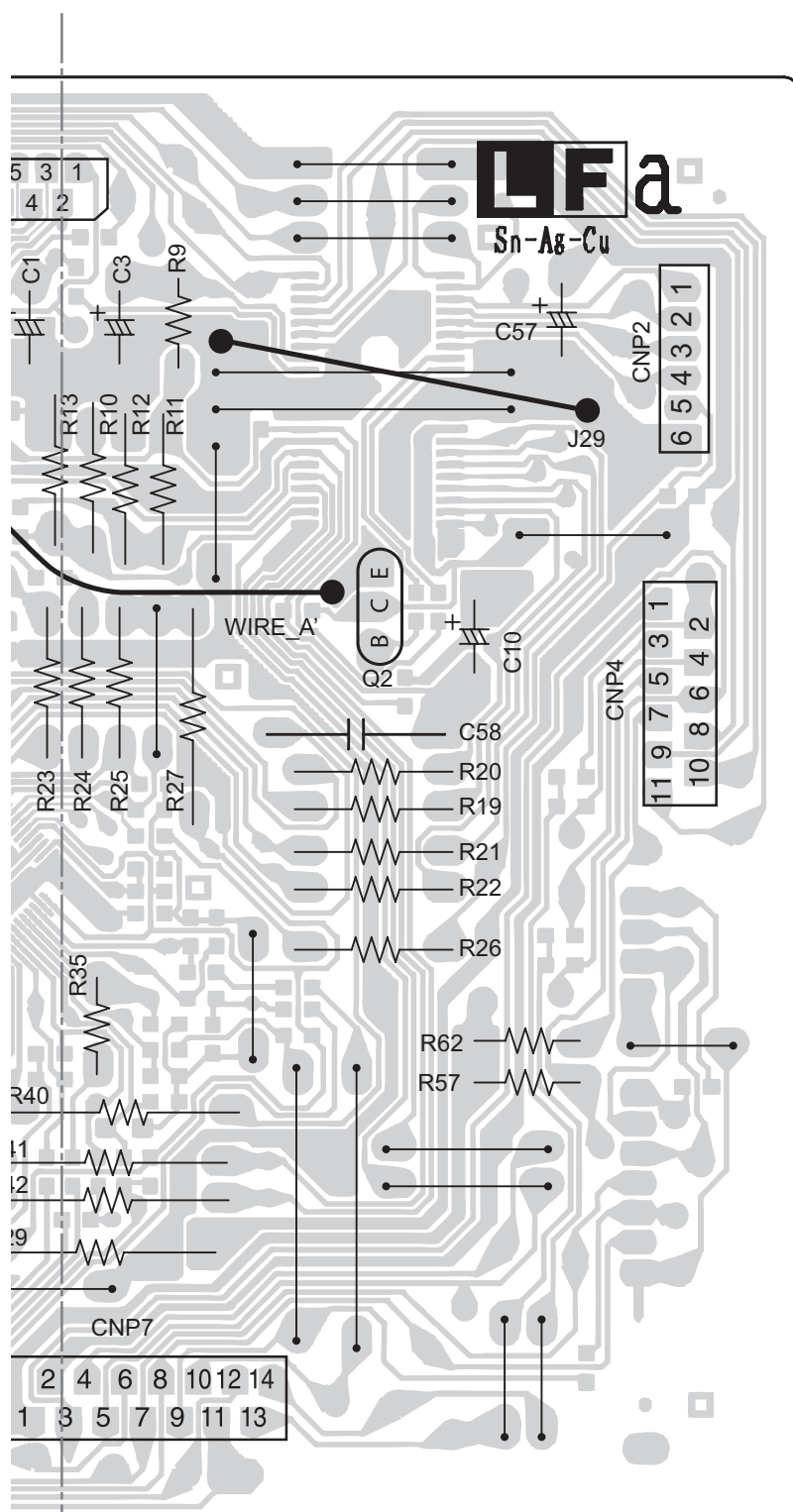
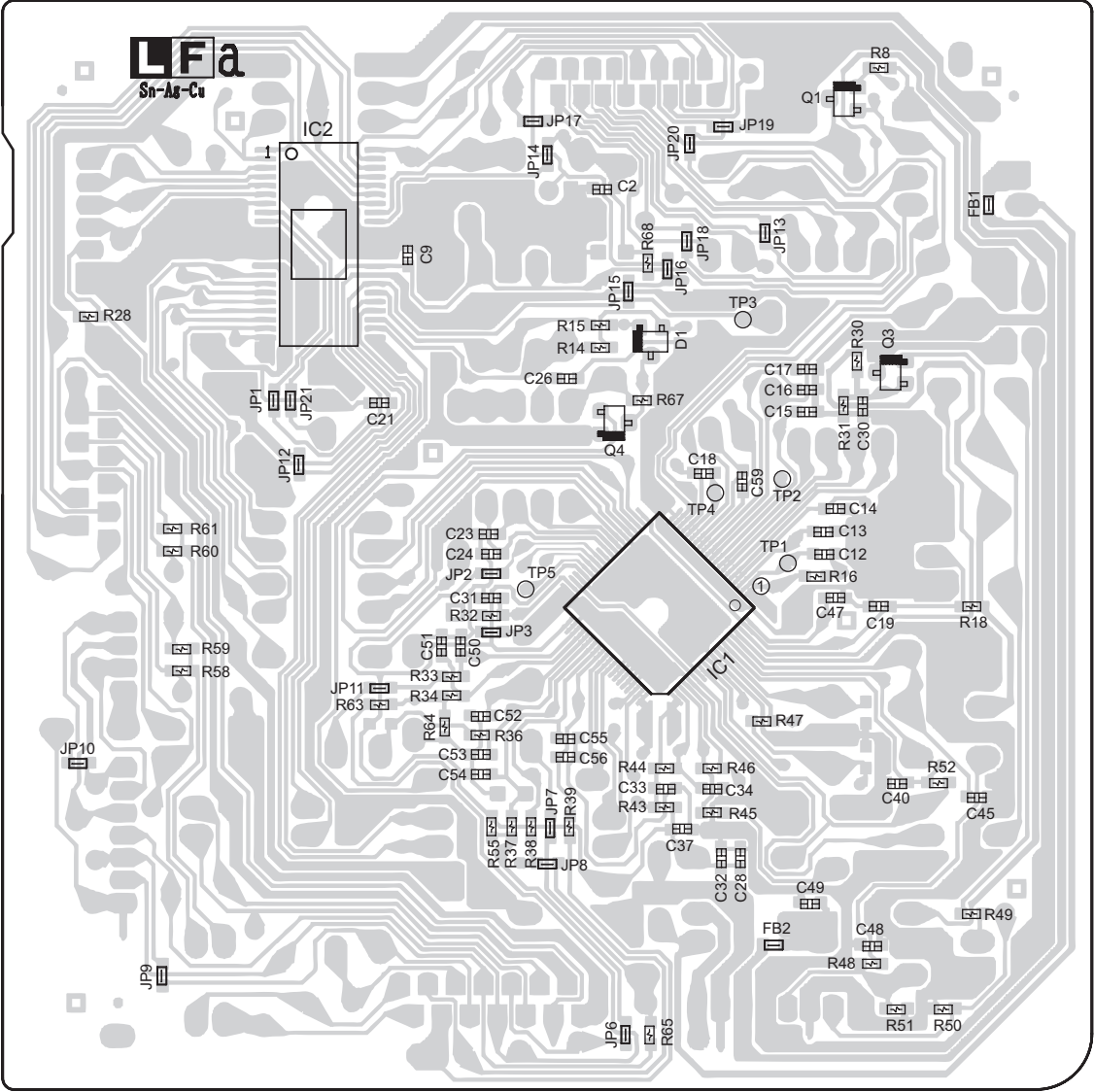


Figure 6-38: WIRING SIDE OF CD PWB (TOP VIEW) (2/2)

CD PWB-D



LFa
Sn-Ag-Cu



Lead-free solder indication

Lead-free solder is used in the CD PWB.
Refer to "Precautions for handling lead-free solder" for instructions
and precautions.

Figure 6-39: WIRING SIDE OF CD PWB (BOTTOM VIEW)

CHAPTER 7. FLOWCHART

[1] Troubleshooting

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

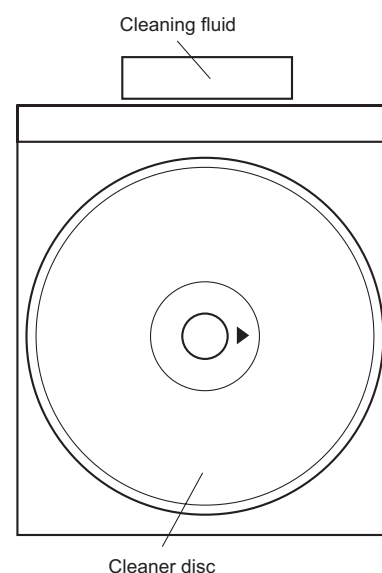
		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.

CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.



2. When a CD cannot be played

2.1. Pressing the CD operation key is accepted, but playback does not occur.

- 1) Focus-HF system check
- 2) Tracking system check
- 3) Spin system check
- 4) PLL system check

(1) Focus-RF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

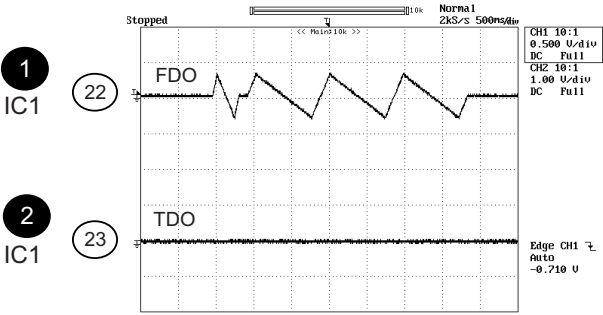


Figure 1

1. Does the pickup move to the PICKUP-IN Switch (NSW1) position ?

No → Sled motor (NM2).

Yes → 2. Does the focus (lens) move up and down ? (Waveform drawing Figure 1)

No → Check the focus peripheral circuit.

Yes → 3. Is the laser lit ?

No → Check the laser diode driver Q1 peripheral circuit.

Yes → 4. Is the turntable rotating ?

No → Spindle motor (NM1).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing Figure 2)

No → Pins 5~9, 11, 18 19 and 22 on IC1
Check the laser diode driver Q1 peripheral circuit.

Yes → 2. Is the RF waveform normal ? (Waveform drawing Figure 3)

No → If the level is not normal.

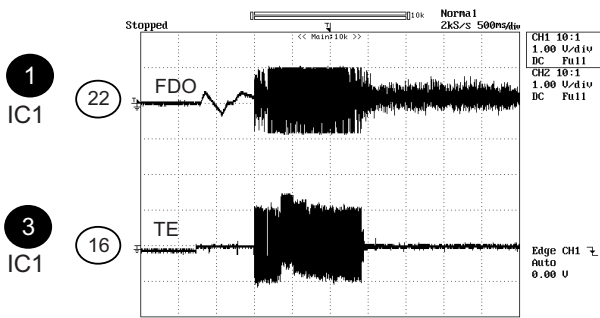


Figure 2

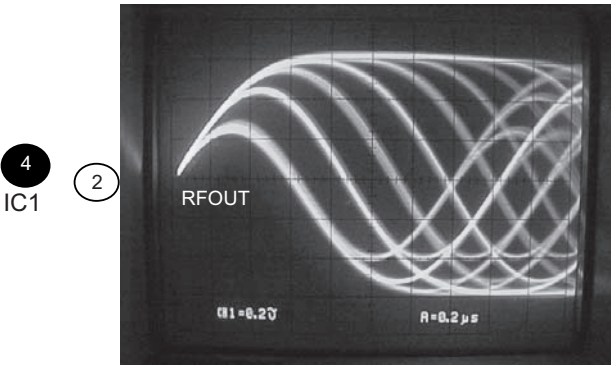


Figure 3

(2) Focus-RF system check.**Check the TE waveform at pin 16 on IC1.**

If the waveform shown in Figure 4 appears and soon after NO DISC appears ?

Yes

The tracking servo is not activated.
Check the peripheral circuits at pins 15, 16 and 23 on IC1, and FFC1.

No

"Initialization" is possible, but play is not possible ?

Yes

A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 23 on IC1.

No

"Initialization" is not possible.

Data cannot be read. Check the VCO-PLL (Pin26~30 on IC1) system.

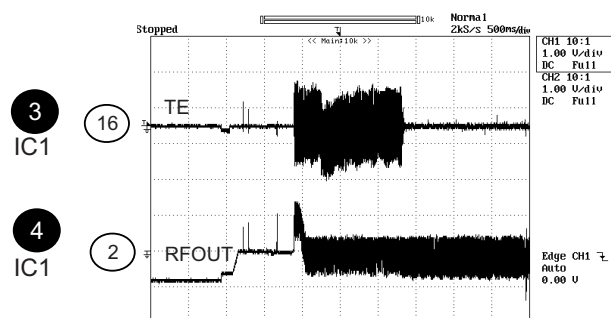


Figure 4

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little ?
(Waveform drawing Figure 5)

Yes

The spin driver circuit is OK.

No

2. The turntable doesn't rotate.

Check around pin 25 on IC1, pins 1 and 2 on CNP2.

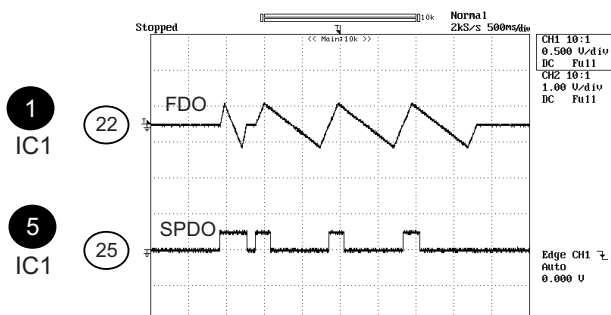


Figure 5

(4) PLL system check.

When a disc is loaded, start play operation.



The RF waveform is normal, but the TOC data cannot be read.



Check the PDOUT waveform. (Figure 6)



Check around pins 26~30 on IC1.

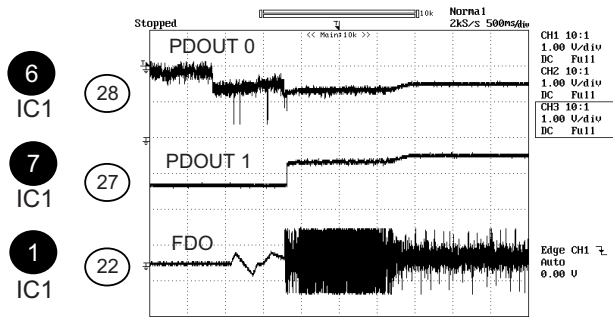


Figure 6

CHAPTER 8. OTHERS

[1] Function Table Of IC

IC1 VHILC78690E-1: CD Servo (LC78690E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	EFMIN	Input	INPUT	RF signal input pin.	
2	RFOUT	Output	UNSTABLE	RF signal output pin.	
3	LPF	Output	UNSTABLE	RF signal DC level detection. LPF capacitor connection pin.	
4	PHLPF	Output	UNSTABLE	LPF capacitor pin for detection problem.	
5	AIN	Input	INPUT	A signal input pin.	
6	CIN	Input	INPUT	C signal input pin.	
7	BIN	Input	INPUT	B signal input pin.	
8	DIN	Input	INPUT	D signal input pin.	
9	FEC	Output	UNSTABLE	FE signal LPF capacitor connection pin.	
10*	RFMON	Output	UNSTABLE	Built in analog signal for monitoring LSI pin.	
11	VREF	Output	AVDD/2	VREF voltage output pin.	
12	JITTC	Output	UNSTABLE	Jitter detection capacitor connection pin.	
13	EIN	Input	INPUT	E signal input pin.	
14	FIN	Input	INPUT	F signal input pin.	
15	TEC	Output	UNSTABLE	TE signal LPF capacitor connection pin.	
16	TE	Output	UNSTABLE	TE signal output pin.	
17	TEIN	Input	INPUT	TES signal generation TE signal input pin.	
18	LDD	Output	UNSTABLE	Laser power control signal output pin.	
19	LDS	Input	INPUT	Laser power control signal input pin.	
20	AVSS	—	—	Analog GND pin. This pin must always be connected to 0V.	
21	AVDD	—	—	Analog power supply pin.	
22	FDO	Output	AVDD/2	Focus control output pin. D/A converter output.	
23	TDO	Output	AVDD/2	Tracking control output pin. D/A converter output.	
24	SLDO	Output	AVDD/2	SLED control output pin. D/A converter output.	
25	SPDO	Output	AVDD/2	SPINDLE control output pin. D/A converter output.	
26	VVSS1	—	—	For use by the EFM PLL Circuit	Built-in VCO GND pin. This pin must always be connected to 0V.
27	PDOUT1	Output	UNSTABLE		Phase comparison output pin 1 to control built in VCO.
28	PDOUT0	Output	UNSTABLE		Phase comparison output pin 0 to control built in VCO.
29	PCKIST	Input	INPUT		Resistor connection pin to set current for PDOUT 0 and 1 output.
30	VVDD1	—	—		Built_in VCO power supply pin 1.
31*	DMUTEb	Output	L	DMUTEb output pin.	
32	PUIN	Input/Output	INPUT	PUIN input pin. (built-in pull-up resistor)	
33*	DEFECT	Output	L	DEFECT signal output pin.	
34*	FSEQ	Output	L	Detected sync signal output. This signal is high when the sync signal detected from the EFM signal and the internally generated sync signal agree.	
35*	C2F	Output	L	C2 error flag monitor output pin.	
36	DVDD	—	—	Digital power supply pin.	
37	DVSS	—	—	Digital GND pin. This pin must always be connected to 0V.	
38	DVDD1.8	Output	H	Supply voltage connect to capacitor for digital circuit.	
39	VDD3	—	—	Built-in VCO power supply pin 3.	
40	VVSS3	—	—	Built-in VCO GND pin 3. This pin must always be connected to 0V.	
41	DVDD	—	—	Digital power supply pin.	
42	DVSS	—	—	Digital GND pin. This pin must always be connected to 0V.	
43	CE	Input	INPUT	Micro-Computer Interface	Chip enable signal input pin.
44	CL	Input	INPUT		Data transfer clock input pin.
45	DI	Input	INPUT		Data input pin.
46	DO	Output	H		Data output pin. (TRI-State Output)
47	RESB	Input	—	Reset input pin for LSI. This pin must set to low briefly after power is applied.	
48	INTB0	Output	H	Interrupt signal output pin 0. (SERVO Section)	
49	INTB1	Output	H	Interrupt signal output pin 1. (DECODER Section)	
50	ICONT2	Input/Output	INPUT	General Purpose I/O pin 2	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
51	CONT1	Input/Output	INPUT	General Purpose I/O pin 1	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open.
52	CONT0	Input/Output	INPUT	General Purpose I/O pin 0	
53	TEST0	Input	L	Test input pin 1. This pin must always be connected to 0V.	
54	STREQ	Input/Output	INPUT	Stream data request output pin.	
55	STCK	Input/Output	INPUT	Stream data bit clock usage input pin.	
56	STDATA	Input/Output	INPUT	Stream data input pin.	
57	TEST1	Input	L	Test input pin 0. This pin must always be connected to 0V.	
58*	DATA	Output	L	Left/Right clock output pin.	
59*	DATACK	Output	L	Bit clock output pin.	
60*	LRSY	Output	L	Left/Right channel data output pin.	
61	VVDD2	—	—	For use by the EFM PLL Circuit	Built-in VCO power supply pin 2.
62	VPREF2	Input	INPUT		Built-in VCO control oscillator range setting input pin.
63	VCOC2	Input	INPUT		Built-in VCO control voltage setting input pin.
64	VPDOUT2	Output	UNSTABLE		Built-in VCO control output pin 2.
65	VVSS2	—	—		Built-in VCO GND pin. This pin must always be connected to 0V.
66	DVDD1.8	Output	H	Supply voltage connect to condenser for digital circuit.	
67	DVSS	—	—	Digital GND pin. This pin must always be connected to 0V.	
68	DVDD	—	—	Digital power supply pin.	
69*	DOUT	Output	Input	Digital output pin. EIAJ format.	
70*	AMUTEB	Output	L	GAMUTEB output pin.	
71	XVSS	—	—	Digital GND pin. This pin must always be connected to 0V.	
72	XOUT	Output	OSCILLATING	Crystal oscillator	Connections for a 16.9344 MHZ oscillator element.
73	XIN	Input	OSCILLATING		
74	XVDD	—	—	Digital power supply pin.	
75	LCHO	Output	LRVDD/2	D/A converter	Left channel output supply pin.
76	LRVDD	—	—		LR channel power supply pin.
77	LRVSS	—	—		LR channel GND pin. This pin must always be connected to 0V.
78	RCHO	Output	LRVDD/2		Right channel input supply pin.
79	AVDD	—	—	Analog power supply pin.	
80	SLCO	—	—	Slice level control output pin.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHiLC78690E-1: CD Servo (LC78690E)

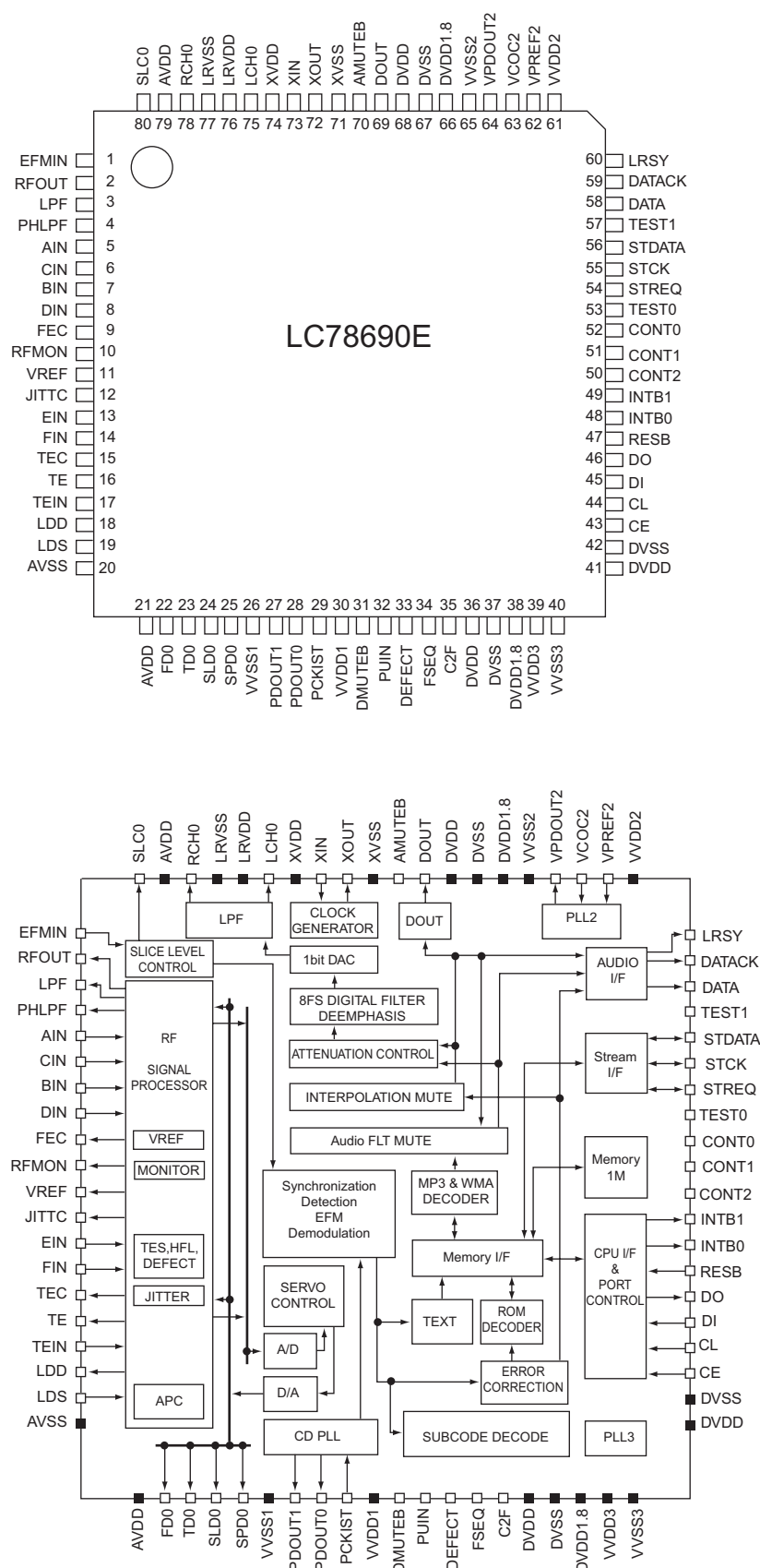


Figure 8-1: BLOCK DIAGRAM OF IC

IC2 VHILA6261//1: Focus/Tracking/Spin/Sled Driver (LA6261)

Pin No.	Terminal Name	Function
1	VO3+	BTL Output pin (+) for channel 3.
2	VO3-	BTL Output pin (-) for channel 3.
3	VO2+	BTL Output pin (+) for channel 2.
4	VO2-	BTL Output pin (-) for channel 2.
5	VO1+	BTL Output pin (+) for channel 1.
6	VO1-	BTL Output pin (-) for channel 1.
7	PGND1	Power GND for channels 1,2,3 and 4 (BTL).
8	REGIN	Regulator pin (External PNP base).
9	PVCC1	Power for channels 1,2,3 and 4 (BTL). (SVCC short-circuited)
10	REGOUT	Regulator pin (External PNP collector).
11	VIN1	Input pin for channel 1
12*	VIN1G	Input pin for channel 1 (for gain control)
13	VIN2	Input pin for channel 2
14*	VIN2G	Input pin for channel 2 (for gain control)
15	VIN3	Input pin for channel 3
16*	VIN3G	Input pin for channel 3 (for gain control)
17	VIN4	Input pin for channel 4
18	VIN4G	Input pin for channel 4 (for gain control)
19	FWD5	CH5 Output change pin (FWD). Logic input for bridge.
20	REV5	CH5 Output change pin (REV). Logic input for bridge.
21	VCONT5	Input pin for CH5 output voltage control
22	FWD6	CH6 Output change pin (FWD). Logic input for bridge.
23	REV6	CH6 Output change pin (REV). Logic input for bridge.
24	VCONT6	Input pin for CH5 output voltage control.
25	VREFIN	Reference voltage input pin.
26	SGND	Signal system GND
27	SVCC	Signal system power (PVCC1 short - circuited)
28	PVCC2	Power for channel 5 and 6 (H bridge).
29	MUTE	Input pin for BTL mute.
30	PGND2	Power GND for channels 5 and 6 (H bridge).
31	VO6+	H bridge Output pin (+) for channel 6.
32	VO6-	H bridge Output pin (-) for channel 6.
33	VO5+	H bridge Output pin (+) for channel 5.
34	VO5-	H bridge Output pin (-) for channel 5.
35	VO4+	BTL Output pin (+) for channel 4.
36	VO4-	BTL Output pin (-) for channel 4.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

- * Set power system GND to the minimum potential together with SGND.
- * Short-circuit three pins of power system SVSS and PVCC1 externally before use.

IC2 VHILA6261/-1: Focus/Tracking/Spin/Sled Driver (LA6261)

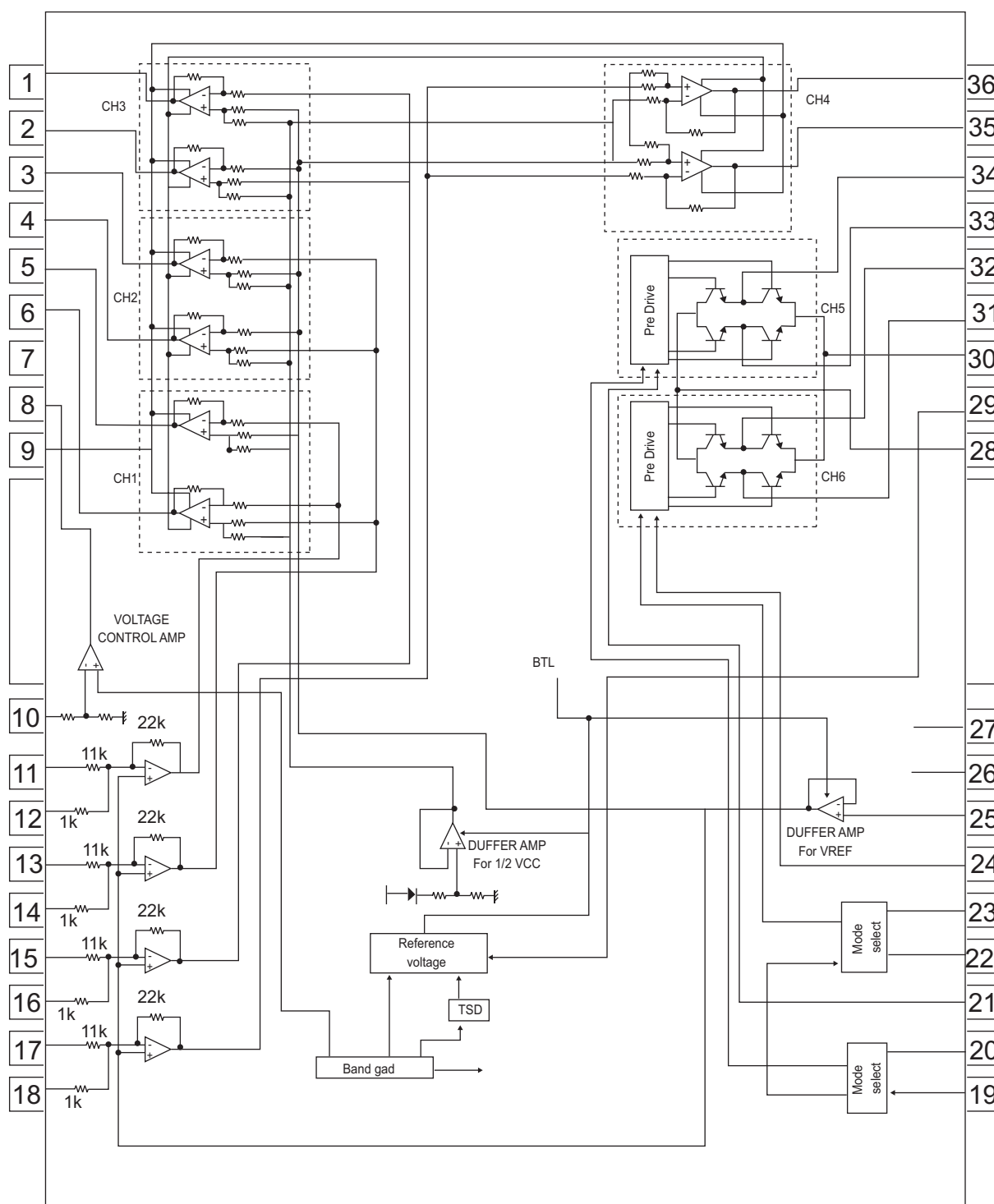


Figure 8-2: BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)

Pin No.	Terminal Name	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin. Data written into an internal latch in a timing of "H" to "L". Each analog switch is activated. Data transfer enabled at "H" level.
3	VSS	Ground pin.
4	LOUT	Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin.
5	LBASS	Bass band filter comprising capacitor and resistor connection pin.
6	LTRE	Treble band filter comprising capacitor and resistor connection pin.
7	LIN	Volume + equalizer output pin.
8	LSEL0	Input selector output pin.
9-12	L4-1	Input signal pin.

Pin No.	Terminal Name	Function
13-16	R1-4	Input signal pin.
17	RSEL0	Input selector output pin.
18	RIN	Volume + equalizer output pin
19	RTRE	Treble band filter comprising capacitor and resistor connection pin.
20	RBASS	Bass band filter comprising capacitor and resistor connection pin.
21	ROUT	Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin.
22	VREF	0.5x VDD voltage generation block for analog ground. Capacitor of several 10μF to be connected between VREF and AWSS (VSS) as a countermeasure against power ripple.
23	VDD	Supply pin
24	CLK	Serial data and clock input pin for control.

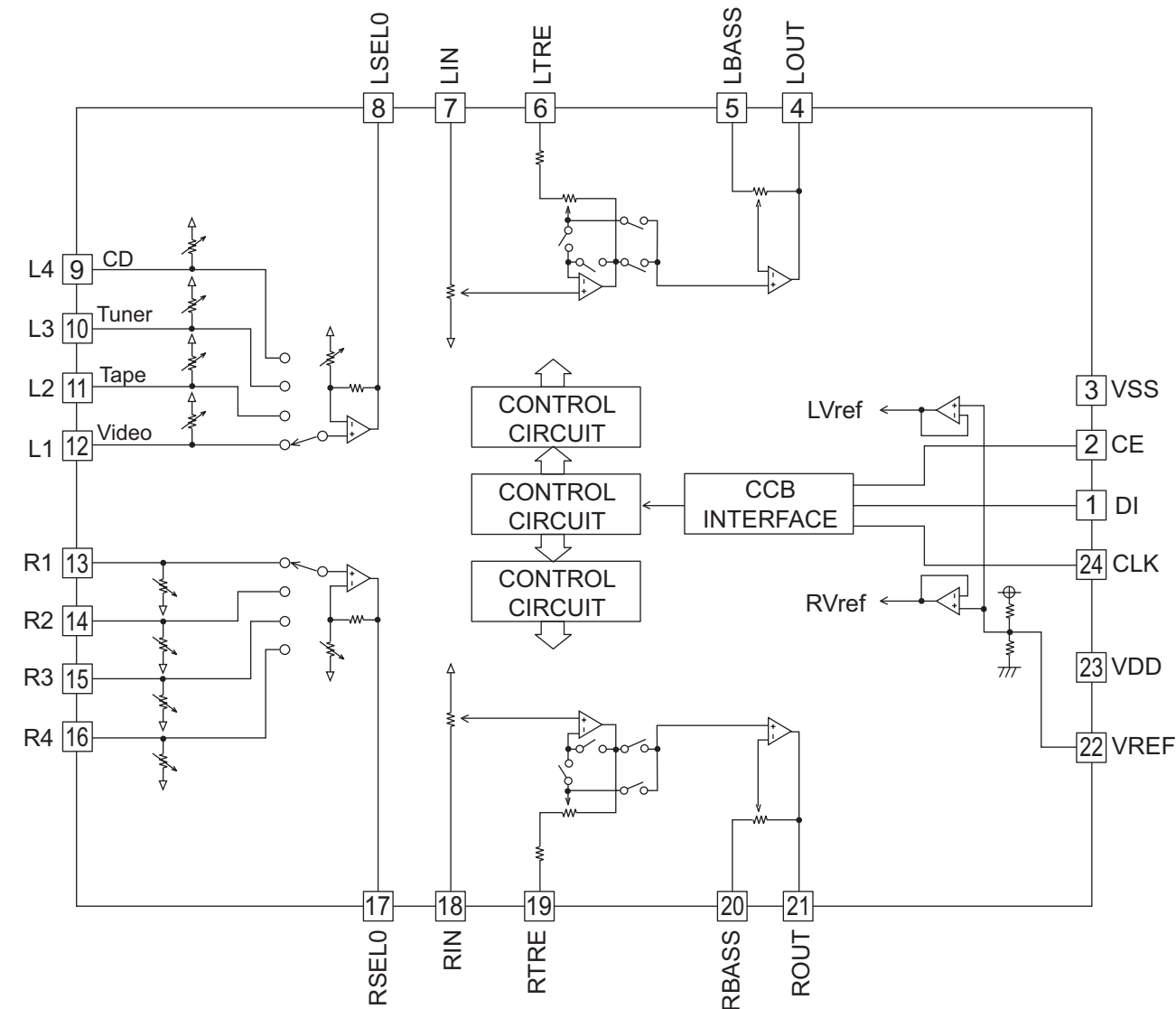
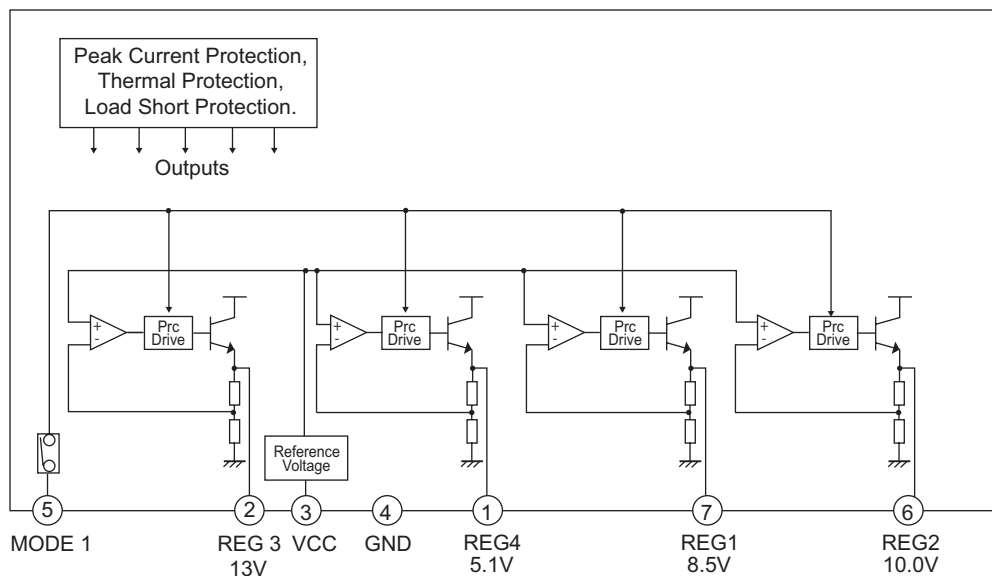


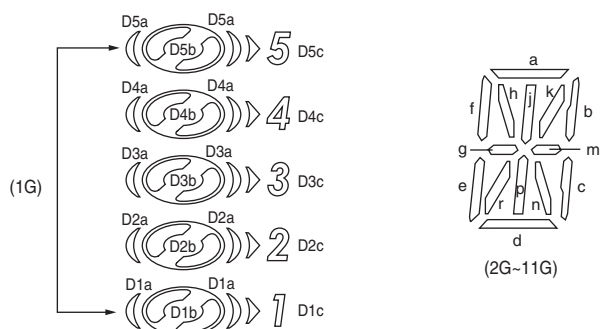
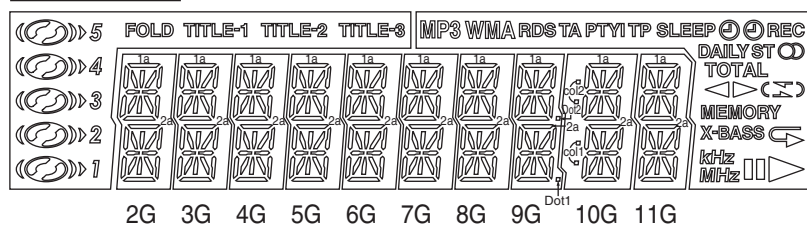
Figure 8-3: BLOCK DIAGRAM OF IC

IC851 VHIAN80T53/-1: Multi Regulator (AN80T53)

Pin No.	Terminal Name	Function
1	REG4 Output	5.1 V power supply with a minimum peak out current of 1200 mA.
2	REG3 Output	13 V power supply with a minimum peak out current of 1350 mA.
3	VCC	Connected to Power supplies.
4	GND	Connected to the IC substrate.
5	MODE 1	REG1, REG2, REG3 and REG4 outputs are turned ON when this pin is 5 V.
6	REG2 Output	10 V power supply with a minimum peak out current of 800 mA.
7	REG1 Output	8.5 V power supply with a minimum peak out current of 700 mA.

**Figure 8-4: BLOCK DIAGRAM OF IC**

12G



	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	FOLD	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	
P2	TITLE-1	1b	1b	1b	1b	1b	1b	1b	1b	1b	1b	
P3	TITLE-2	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	TOTAL
P4	TITLE-3	1j	1j	1j	1j	1j	1j	1j	1j	1j	1j	RDS
P5	5	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	TA
P6	D5a	1f	1f	1f	1f	1f	1f	1f	1f	1f	1f	WMA
P7	D5b	1m	1m	1m	1m	1m	1m	1m	1m	1m	1m	PTYI
P8	D5c	1d	1d	1d	1d	1d	1d	1d	1d	1d	1d	TP
P9	4	1g	1g	1g	1g	1g	1g	1g	1g	1g	1g	SLEEP
P10	D4a	1p	1p	1p	1p	1p	1p	1p	1p	1p	1p	DAILY
P11	D4b	1e	1e	1e	1e	1e	1e	1e	1e	1e	1e	⓪(L)
P12	D4c	1n	1n	1n	1n	1n	1n	1n	1n	1n	1n	⓪(R)
P13	3	1r	1r	1r	1r	1r	1r	1r	1r	1r	1r	REC
P14	D3a	1c	1c	1c	1c	1c	1c	1c	1c	1c	1c	ST
P15	D3b	2a	2a	2a	2a	2a	2a	2a	2a	2a	2a	◁
P16	D3c	2b	2b	2b	2b	2b	2b	2b	2b	2b	2b	▷
P17	2	2k	2k	2k	2k	2k	2k	2k	2k	2k	2k	⓪⓪
P18	D2a	2j	2j	2j	2j	2j	2j	2j	2j	2j	2j	(
P19	D2b	2h	2h	2h	2h	2h	2h	2h	2h	2h	2h	⌂
P20	D2c	2f	2f	2f	2f	2f	2f	2f	2f	2f	2f)
P21	1	2m	2m	2m	2m	2m	2m	2m	2m	2m	2m	MEMORY
P22	D1a	2d	2d	2d	2d	2d	2d	2d	2d	2d	2d	↶
P23	D1b	2g	2g	2g	2g	2g	2g	2g	2g	2g	2g	▷(III)
P24	D1c	2p	2p	2p	2p	2p	2p	2p	2p	2p	2p	kHz
P25		2e	2e	2e	2e	2e	2e	2e	2e	2e	2e	MHz
P26		2n	2n	2n	2n	2n	2n	2n	2n	2n	2n	II
P27		2r	2r	2r	2r	2r	2r	2r	2r	2r	2r	MP3
P28		2c	2c	2c	2c	2c	2c	2c	2c	2c	2c	X-BASS
P29									Dot1	Col1		
P30									Dot2	Col2		



PIN NO.	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
CONNECTION	F2	F2	NP	NP	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9

PIN NO.	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P8	P7	P6	P5	P4	P3	P2	P1	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	NX	NX	2G	1G	NP	F1	F1

SHARP PARTS GUIDE


MINI COMPONENT SYSTEM

MODEL CD-DK890N

CD-DK890N Mini Component System consisting of
CD-DK890N (main unit), CP-DK890N (speaker system).

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| [7] CAPACITORS | |
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Parts marked with "  " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
iC1	VHiLC78690E-1	BE			CD Servo
iC2	VHiLA6261//-1	AN			Focus/Tracking/Spin/Sled Driver
iC101	VHi341S2160-1	AM			Playback and Record Playback Amp[Use in IPOD PWB-C]
iC101	VHiAN7345K/-1	AM			Pre Amplifier [Use in MAIN PWB-A1]
iC601	VHiLC75341M-1	AM			Audio Processor
iC602	VHiBA3121F+-1	AL			Ground Isolation
iC701	RH-iXA201AWZZ	AZ			System Microcomputer, iXA201AW
iC702	VHiBU2092F/-1	AM			Input / Output Expander
iC851	VHiAN80T53/-1	AL			Voltage Regulator
iC852	VHiKiA7805AP1	AF			Voltage Regulator
iC854	VHiKiA78L05-1	AF			Voltage Regulator
iC892	VHiAP2213M33E	AE			Voltage Regulator
iC901	VHiSTK41241-1	BA			Power Amplifier
[2] TRANSISTORS					
Q1	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q2	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q3	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q4	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q100	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q101	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q102	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q103	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q104	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q105	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q106	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q107	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q108	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q109	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q110	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q111	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q112	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q113	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q114	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q603	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q604	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q606	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
Q607	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q608	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q609	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q610	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q665	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q666	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q667	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q668	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q703	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q704	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q705	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q706	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q707	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q708	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q709	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q710	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q711	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q712	VSKRC102S//-1	AB			Digital,NPN,KRC102 S
Q713	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q801	VSKTA1274Y/-1	AE			Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	AC			Silicon,NPN,KTC3199 GR
Q885	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q886	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q891	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q901	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q902	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q903	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q904	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q905	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q908	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q909	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
[3] DIODES					
D1	VHDKDS184//-1	AB			Silicon,KDS184
D104	VHDMA111G++-1	AB			Silicon,MA111
D105	VHDMA111G++-1	AB			Silicon,MA111
D601	VHDMA111G++-1	AB			Silicon,MA111
D603	VHDHSS4148+-1	AA			Silicon,HSS4148
D611	VHDMA111G++-1	AB			Silicon,MA111
D612	VHDMA111G++-1	AB			Silicon,MA111
D613	VHDMA111G++-1	AB			Silicon,MA111
D614	VHDMA111G++-1	AB			Silicon,MA111
D615	VHD1N4004S/-1	AB			Silicon,IN4004S
D690	VHDMA111G++-1	AB			Silicon,MA111
D691	VHDMA111G++-1	AB			Silicon,MA111
D692	VHDMA111G++-1	AB			Silicon,MA111
D693	VHDMA111G++-1	AB			Silicon,MA111
D706	VHDHSS4148+-1	AA			Silicon,HSS4148

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
	D707	VHDHSS4148+-1	AA		Silicon,HSS4148
	D708	VHDHSS4148+-1	AB		Silicon,HSS4148
	D709	VHDHSS4148+-1	AA		Silicon,HSS4148
	D710	VHDHSS4148+-1	AA		Silicon,HSS4148
	D711	VHDHSS4148+-1	AA		Silicon,HSS4148
	D712	VHDHSS4148+-1	AA		Silicon,HSS4148
	D713	VHDM1111G+-1	AB		Silicon,MA111
	D801	VHDD10XB60F-1	AL		Rectifier, D10XB60
	D802	VHDD10XB60F-1	AL		Rectifier, D10XB60
	D803	VHDGDR1204F-1	AC		Silicon,DRL204F
	D804	VHDGDR1204F-1	AC		Silicon,DRL204F
	D805	VHD1N4004S/-1	AB		Silicon,IN4004S
	D806	VHD1N4004S/-1	AB		Silicon,IN4004S
	D842	VHD1N4004S/-1	AB		Silicon,IN4004S
	D843	VHD1N4004S/-1	AB		Silicon,IN4004S
	D844	VHD1N4004S/-1	AB		Silicon,IN4004S
	D845	VHD1N4004S/-1	AB		Silicon,IN4004S
	D846	VHD1N4004S/-1	AB		Silicon,IN4004S
	D853	VHD1N4004S/-1	AB		Silicon,IN4004S
	D856	VHDHSS4148+-1	AA		Silicon,HSS4148
	D860	VHDHSS4148+-1	AA		Silicon,HSS4148
	D861	VHDHSS4148+-1	AA		Silicon,HSS4148
	D862	VHDHSS4148+-1	AA		Silicon,HSS4148
	D863	VHDHSS4148+-1	AA		Silicon,HSS4148
	D864	VHDHSS4148+-1	AA		Silicon,HSS4148
	D865	VHDHSS4148+-1	AA		Silicon,HSS4148
	D867	VHDM1111G+-1	AB		Silicon,MA111
	D885	VHDHSS4148+-1	AA		Silicon,HSS4148
	D905	VHDHSS4148+-1	AA		Silicon,HSS4148
	D906	VHDHSS4148+-1	AA		Silicon,HSS4148
	D907	VHDHSS4148+-1	AA		Silicon,HSS4148
	D909	VHD1N4004S/-1	AB		Silicon,IN4004S
	D910	VHD1N4004S/-1	AB		Silicon,IN4004S
	D911	VHDHSS4148+-1	AA		Silicon,HSS4148
	D912	VHDHSS4148+-1	AA		Silicon,HSS4148
	D913	VHDHSS4148+-1	AA		Silicon,HSS4148
	D914	VHDHSS4148+-1	AA		Silicon,HSS4148
	D915	VHDHSS4148+-1	AA		Silicon,HSS4148
	D916	VHDHSS4148+-1	AA		Silicon,HSS4148
	LED702	VHPSLR342VCB1	AC		LED,Red SLR342VC
	ZD801	RH-EX0617GEZZ	AB		Zener,6.2V
	ZD802	RH-EX0624GEZZ	AB		Zener,7.5V
	ZD803	RH-EX0671GEZZ	AB		Zener,30V
	ZD805	RH-EX0640GEZZ	AB		Zener,12V
	ZD811	RH-EX0621GEZZ	AB		Zener,6.8V
	ZD812	RH-EX0646GEZZ	AB		Zener,15V
	ZD813	RH-EX0621GEZZ	AB		Zener,6.8V
	ZD902	RH-EX0640GEZZ	AB		Zener,12V
	ZD903	RH-EX0640GEZZ	AB		Zener,12V
[4] TRANSFORMERS					
	PT801	RTRNPA123AWZZ	BK		Power (Main)
	PT841	RTRNPA078AWZZ	AM		Power (Sub)
[5] COILS					
	FB1	RBLN-0061TAZZ	AB		Ferrite Bead
	FB2	RBLN-0061TAZZ	AB		Ferrite Bead
	L103	VP-MK331K0000	AB		330 μ H, Choke
	L701	VP-DH101K0000	AB		100 μ H, Choke
	L901	RCiLZ0024AWZZ	AC		3 μ H, Choke
	L902	RCiLZ0024AWZZ	AC		3 μ H, Choke
[6] CRYSTALS / VIBRATORS					
	XL1	RCRM-0047AWZZ	AE		Ceramic,16.9344 MHz
	XL701	RCRSPA019AWZZ	AE		Crystal,8.388608 MHz
[7] CAPACITORS					
	C1	VCEAZA1AW107M	AB		100 μ F,10V,Electrolytic
	C2	VCKYCY1HB102K	AA		1000 pF,50V,
	C3	VCEAZA1AW107M	AB		100 μ F,10V,Electrolytic
	C4	VCKYPA1HB103K	AA		0.01 μ F,50V
	C5	VCEAZA1EW476M	AB		47 μ F,25V,Electrolytic
	C6	RC-EZ0004AWZZ	AD		3.3 μ F,16V,Electrolytic
	C7	VCKYPA1HB102K	AA		1000 pF,50V
	C8	VCEAZA1AW476M	AB		47 μ F,10V,Electrolytic
	C9	VCKYCY1HB103K	AA		0.01 μ F,50V,
	C10	VCEAZA0JW108M	AC		1000 μ F,6.3V,Electrolytic
	C11	VCEAZA1AW107M	AB		100 μ F,10V,Electrolytic
	C12	VCKYCY1HB472K	AA		4700 pF,50V,
	C13	VCKYCY1HB103K	AA		0.01 μ F,50V,
	C14	VCKYCY1EF473Z	AB		0.047 μ F,25V,
	C15	VCKYCY1CB563K	AB		0.056 μ F,16V
	C16	VCKYCY1HB103K	AA		0.01 μ F,50V,
	C17	VCKYCY1CB563K	AB		0.056 μ F,16V,
	C18	VCKYCY1HB103K	AA		0.01 μ F,50V,
	C19	VCKYCY1CB104K	AB		0.1 μ F,16V,
	C20	VCEAZA1AW107M	AB		100 μ F,10V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C21	VCKYCY1CB104K	AB			0.1 µF,16V
C22	VCEAZA1AW477M	AC			470 µF,10V,Electrolytic
C23	VCKYCY1CB104K	AB			0.1 µF,16V
C24	VCKYCY1CB104K	AB			0.1 µF,16V
C25	VCEAZA1HW224M	AB			0.22 µF,50V,Electrolytic
C26	VCKYCY1EF473Z	AB			0.047 µF,25V
C27	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C28	VCKYCY1CB104K	AB			0.1 µF,16V
C29	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C30	VCKYCY1CB104K	AB			0.1 µF,16V
C31	VCKYCY1CB104K	AB			0.1 µF,16V
C32	VCKYCY1CB104K	AB			0.1 µF,16V
C33	VCKYCY1CB104K	AB			0.1 µF,16V
C34	VCKYCY1CB104K	AB			0.1 µF,16V
C35	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C36	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C37	VCKYCY1CB104K	AB			0.1 µF,16V
C40	VCKYCY1CB104K	AB			0.1 µF,16V
C41	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C42	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C43	VCKYPA1HB152K	AA			1500 pF,50V
C44	VCKYPA1HB152K	AA			1500 pF,50V
C45	VCKYCY1CB104K	AB			0.1 µF,16V
C46	VCEAZA1AW477M	AC			470 µF,10V,Electrolytic
C47	VCKYCY1EF473Z	AB			0.047 µF,25V
C48	VCKYCY1HB103K	AA			0.01 µF,50V
C49	VCKYCY1EF223Z	AB			0.022 µF,25V
C50	VCCCCY1HH101J	AA			100 pF (CH),50V
C51	VCCCCY1HH101J	AA			100 pF (CH),50V
C52	VCCCCY1HH101J	AA			100 pF (CH),50V
C53	VCCCCY1HH101J	AA			100 pF (CH),50V
C54	VCKYCY1EF223Z	AB			0.022 µF,25V
C55	VCCCCY1HH101J	AA			100 pF (CH),50V
C56	VCCCCY1HH101J	AA			100 pF (CH),50V
C57	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C58	VCKYBT1HB103K	AB			0.01 µF,50V
C59	VCKYCY1HB822K	AA			8200 pF,50V
C100	VCCCCY1HH101J	AA			100 pF (CH),50V
C101	VCKYCY1EF104Z	AA			0.1 µF,50V [Use in IPOD PWB-C]
C101	VCKYCY1HB821K	AA			820 pF,50V [Use in MAIN PWB-A1]
C102	VCKYCY1HB821K	AA			820 pF,50V [Use in MAIN PWB-A1]
C103	VCCCCY1HH181J	AA			180 pF (CH),50V [Use in MAIN PWB-A1]
C104	VCKYCY1EF104Z	AA			0.1 µF,50V [Use in IPOD PWB-C]
C104	VCCCCY1HH181J	AA			180 pF (CH),50V [Use in MAIN PWB-A1]
C105	VCKYCY1EF104Z	AA			0.1 µF,50V [Use in IPOD PWB-C]
C105	VCKYCY1HB821K	AA			820 pF,50V [Use in MAIN PWB-A1]
C106	VCKYCY1HB821K	AA			820 pF,50V [Use in MAIN PWB-A1]
C108	VCEAPS226AF1C	AC			22 µF,16V,Electrolytic
C110	VCKYCY1HB102K	AA			1000 pF,50V
C111	VCCCCY1HH101J	AA			100 pF (CH),50V [Use in IPOD PWB-C]
C111	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic [Use in MAIN PWB-A1]
C112	VCKYCY1HB102K	AA			1000 pF,50V [Use in IPOD PWB-C]
C112	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic [Use in MAIN PWB-A1]
C113	VCKYCY1EF104Z	AA			0.1 µF,50V [Use in IPOD PWB-C]
C113	VCKYCY1HB333K	AB			0.033 µF,50V [Use in MAIN PWB-A1]
C114	VCEAPS106AF1C	AB			10 µF,16V,Electrolytic [Use in IPOD PWB-C]
C114	VCKYCY1HB333K	AB			0.033 µF,50V [Use in MAIN PWB-A1]
C115	VCKYCY1HB561K	AA			560 pF,50V
C116	VCKYCY1HB561K	AA			560 pF,50V
C117	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C118	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C119	VCKYCY1HB222K	AA			2200 pF,50V
C120	VCKYCY1HB222K	AA			2200 pF,50V
C121	VCKYCY1EF223Z	AB			0.022 µF,25V
C123	VCKYCY1HB271K	AA			270 pF,50V
C124	VCKYCY1HB271K	AA			270 pF,50V
C125	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C126	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C127	VCKYCY1EF223Z	AB			0.022 µF,50V,Myar
C128	VCKYCY1EF223Z	AB			0.022 µF,50V,Myar
C129	VCKYCY1HB332K	AA			3300 pF,50V
C130	VCKYCY1HB332K	AA			3300 pF,50V
C131	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C132	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C133	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C134	VCEAZA1AW227M	AC			220 µF,10V,Electrolytic
C135	VCKYCY1EF223Z	AB			0.022 µF,25V
C137	VCQYKA1HM473K	AB			0.047µF,50V,Myar
C138	VCQPKA2AA822J	AA			8200 pF,100V,Myar
C139	VCQYKA1HM393K	AB			0.039 µF,50V,Myar
C140	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C141	VCEAZA1CW107M	AC			100 µF,16V,Electrolytic
C143	VCEAZA1HW335M	AB			3.3 µF,50V,Electrolytic
C150	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C151	VCKYCY1EF223Z	AB			0.022 µF,50V,Myar
C152	VCKYCY1EF223Z	AB			0.022 µF,50V,Myar
C601	VCEAZA1CW227M	AC			220 µF,16V,Electrolytic
C602	VCQYKA1HM223K	AB			0.022 µF,50V,Myar

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C603	VCEAZA1AW227M	AC			220 µF,10V,Electrolytic
C604	VCKYCY1HB391K	AA			390 pF,50V
C605	VCEAZA1HW475M	AB			4.7 µF,50V,Electrolytic
C606	VCFYFA1HA823J	AC			0.082 µF,50V,Mylar
C607	VCFYFA1HA823J	AC			0.082 µF,50V,Mylar
C608	VCFYFA1HA124J	AL			0.12 µF,50V,Thin Film
C609	VCEAZA1HW334M	AB			0.33 µF,50V,Electrolytic
C610	VCEAZA1HW334M	AB			0.33 µF,50V,Electrolytic
C611	VCKYCY1HB272K	AA			2700 pF,50V
C612	VCKYCY1HB272K	AA			2700 pF,50V
C613	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C614	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C615	VCFYFA1HA124J	AL			0.12 µF,50V,Thin Film
C616	VCEAZA1HW475M	AB			4.7 µF,50V,Electrolytic
C617	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C618	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C619	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C620	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C621	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C622	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C623	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C624	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C625	VCKYCY1HB222K	AA			2200 pF,50V
C626	VCKYCY1HB222K	AA			2200 pF,50V
C629	VCKYCY1HB102K	AA			1000 pF,50V
C630	VCKYCY1HB102K	AA			1000 pF,50V
C631	VCKYCY1HB102K	AA			1000 pF,50V
C632	VCKYCY1HB102K	AA			1000 pF,50V
C633	VCKYCY1HB102K	AA			1000 pF,50V
C634	VCKYCY1HB102K	AA			1000 pF,50V
C640	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C641	VCEAZA1AW107M	AB			100 µF,10V,Electrolytic
C643	VCKYCY1HB102K	AA			1000 pF,50V
C644	VCKYCY1HB102K	AA			1000 pF,50V
C651	VCKYCY1HB221K	AA			220 pF,50V
C652	VCKYCY1HB221K	AA			220 pF,50V
C653	VCKYCY1HB221K	AA			220 pF,50V
C656	VCKYCY1HB104K	AD			0.1 µF,50V
C657	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C658	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C661	VCKYCY1HB391K	AA			390 pF,50V
C662	VCKYCY1HB103K	AA			0.01 µF,50V
C663	VCKYCY1HB103K	AA			0.01 µF,50V
C664	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C665	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C666	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C668	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C669	VCEAZA1CW106M	AC			10 µF,16V,Electrolytic
C670	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C671	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C672	VCEAZA1CW477M	AC			470 µF,16V,Electrolytic
C675	VCEAZA1HW225M	AB			2.2 µF,50V,Electrolytic
C676	VCEAZA1HW225M	AB			2.2 µF,50V,Electrolytic
C677	VCKYCY1HB103K	AA			0.01 µF,50V
C678	VCKYCY1HB103K	AA			0.01 µF,50V
C679	VCCCCY1HH181J	AA			180 pF(CH),50V
C680	VCCCCY1HH181J	AA			180 pF(CH),50V
C683	VCKYCY1HB103K	AA			0.01 µF,50V
C701	RC-EZD105AF1H	AB			1 µF,50V,Electrolytic
C702	VCEAZA1AW227M	AC			220 µF,10V,Electrolytic
C703	VCKYCY1EF223Z	AB			0.022 µF,25V
C705	VCKYCY1EF473Z	AB			0.047 µF,25V
C709	VCKYCY1EF223Z	AB			0.022 µF,25V
C710	RC-EZD476AF1E	AC			47 µF,25V,Electrolytic
C712	RC-EZD335AF1H	AB			3.3 µF,50V,Electrolytic
C713	VCKYCY1HB103K	AA			0.01 µF,50V
C714	VCKYCY1EF473Z	AB			0.047 µF,25V
C715	VCKYCY1HB103K	AA			0.01 µF,50V
C717	VCKYCY1HB473K	AB			0.047 µF,50V
C718	VCKYCY1HB473K	AB			0.047 µF,50V
C721	RC-EZD105AF1H	AB			1 µF,50V,Electrolytic
C742	VCKYCY1EF223Z	AB			0.022 µF,25V
C750	VCCCCY1HH101J	AA			100 pF(CH),50V
C751	VCCCCY1HH101J	AA			100 pF(CH),50V
C752	VCCCCY1HH101J	AA			100 pF(CH),50V
C753	VCKYCY1HB104K	AD			0.1 µF,50V
C754	VCCCCY1HH101J	AA			100 pF(CH),50V
C755	VCCCCY1HH101J	AA			100 pF(CH),50V
C756	VCCCCY1HH101J	AA			100 pF(CH),50V
C801	VCEAZA1VW107M	AC			100 µF,35V,Electrolytic
C802	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C803	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C804	VCEAZA1JW227M	AD			220 µF,63V,Electrolytic
C805	VCEAZA2AW226M	AC			22 µF,100V,Electrolytic
C806	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C807	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C808	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C809	VCFYFA1HA104J	AC			0.1 µF,50V,Thin Film
C810	VCFYDA2AA224J	AD			0.22 µF,100V,Thin Film

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C811	VCFYDA2AA224J	AD			0.22 μ F,100V,Thin Film
C812	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C813	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar
C814	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar
C815	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C816	VCFYFA1HA105J	AE			1 μ F,50V,Thin Film
C817	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C818	VCCCCY1HH101J	AA			100 pF(CH),50V
C841	VCEAZA0JW108M	AC			1000 μ F,6.3V,Electrolytic
C842	VCEAZA1VW477M	AD			470 μ F,25V,Electrolytic
C843	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar
C844	RC-KZ002LAWZZ	AC			4700 pF,250V,Ceramic
C850	VCEAZW1EW478M	AK			4700 μ F,25V,Electrolytic
C854	VCEAZA1EW227M	AC			220 μ F,25V,Electrolytic
C855	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C856	VCFYFA1HA104J	AC			0.1 μ F,50V,Thin Film
C859	VCEAZA1HW226M	AB			22 μ F,50V,Electrolytic
C861	VCQYKA1HM223K	AB			0.022 μ F,50V,Mylar
C864	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C865	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C869	VCQYKA1HM223K	AB			0.022 μ F,50V,Mylar
C885	VCKYCY1HB104K	AD			0.1 μ F,50V
C901	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C902	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C903	VCKYCY1HB102K	AA			1000 pF,50V
C904	VCKYCY1HB102K	AA			1000 pF,50V
C905	VCEAZA1HW335M	AB			3.3 μ F,50V,Electrolytic
C906	VCEAZA1HW335M	AB			3.3 μ F,50V,Electrolytic
C907	VCCCCY1HH101J	AA			100 pF(CH),50V
C908	VCCCCY1HH3R0C	AA			3 pF(CH),50V
C909	VCFYFA1HA104J	AC			0.1 μ F,50V,Thin Film
C910	VCCCCY1HH3R0C	AA			3 pF(CH),50V
C911	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C912	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C913	VCCCCY1HH101J	AA			100 pF(CH),50V
C914	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C915	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C916	VCEAZA1HW107M	AC			100 μ F,50V,Electrolytic
C917	VCKYCY1HB103K	AA			0.01 μ F,50V
C918	VCEAZA1HW107M	AC			100 μ F,50V,Electrolytic
C919	VCKYCY1HB103K	AA			0.01 μ F,50V
C920	RC-EZ3021AWZZ	AL			3300 μ F,71V,Electrolytic
C921	VCEAZW1VW338M	AH			3300 μ F,35V,electrolytic
C922	VCEAZW1VW338M	AH			3300 μ F,35V,electrolytic
C923	RC-EZ3021AWZZ	AL			3300 μ F,71V,Electrolytic
C925	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C928	VCFYFA1HA104J	AC			0.1 μ F,50V,Thin Film
C929	VCFYFA1HA104J	AC			0.1 μ F,50V,Thin Film
C939	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C946	VCEAZA1HW104M	AB			0.1 μ F,50V,Electrolytic
CA715	VCKYCY1HB331K	AA			330 pF,50V
CA716	VCKYCY1HB331K	AA			330 pF,50V
CA721	VCKYCY1HB471K	AA			470 pF,50V
CA722	VCKYCY1HB471K	AA			470 pF,50V
CD706	VCKYCY1EF223Z	AB			0.022 μ F,25V
CD710	VCKYCY1HB473K	AB			0.047 μ F,50V
CD716	VCCCCY1HH270J	AA			27 pF(CH),50V
CD717	VCCCCY1HH220J	AA			22 pF(CH),50V
[8] RESISTORS					
D107	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB102	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB105	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB106	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP1	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP2	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP3	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP6	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP7	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP8	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP9	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP10	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP11	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP12	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP13	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP14	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP15	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP16	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP17	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP18	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP19	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP20	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP21	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP102	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP104	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP608	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
JP701	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP702	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP703	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP704	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP705	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP734	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
L101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green [Use in IPOD PWB-C]
L101	VRS-TV2AB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green (Use in Main PWB-A1)
R1	VRD-ST2CD102J	AA			1 kohms,1/6W
R4	VRD-ST2CD102J	AA			1 kohms,1/6W
R7	VRD-ST2CD470J	AA			47 ohms,1/6W
R8	VRS-CY1JB100J	AA			10 ohms,1/16W
R9	VRD-ST2CD102J	AA			1 kohms,1/6W
R10	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R11	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R12	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R13	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R14	VRS-CY1JB103J	AA			10 kohms,1/16W
R15	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R16	VRS-CY1JB331J	AA			330 ohms,1/16W
R17	VRD-ST2CD330J	AA			33 ohms,1/6W
R18	VRS-CY1JB1R0J	AA			1 ohms,1/16W
R19	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R20	VRD-ST2CD153J	AA			15 kohms,1/6W
R21	VRD-ST2CD123J	AA			12 kohms,1/6W
R22	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R23	VRD-ST2CD681J	AA			680 ohms,1/6W
R24	VRD-ST2CD681J	AA			680 ohms,1/6W
R25	VRD-ST2CD683J	AA			68 kohms,1/6W
R26	VRD-ST2CD102J	AA			1 kohms,1/6W
R27	VRD-ST2CD820J	AA			82 ohms,1/6W
R28	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R29	VRD-ST2CD1R0J	AA			1 ohms,1/6W
R30	VRS-CY1JB271J	AA			270 ohms,1/16W
R31	VRS-CY1JB681J	AA			680 ohms,1/16W
R32	VRS-CY1JB820J	AA			82 ohms,1/16W
R33	VRS-CY1JB102J	AA			1 kohms,1/16W
R34	VRS-CY1JB102J	AA			1 kohms,1/16W
R35	VRD-ST2CD102J	AA			1 kohms,1/6W
R36	VRS-CY1JB102J	AA			1 kohms,1/16W
R37	VRS-CY1JB102J	AA			1 kohms,1/16W
R38	VRS-CY1JB102J	AA			1 kohms,1/16W
R39	VRS-CY1JB102J	AA			1 kohms,1/16W
R40	VRD-ST2CD102J	AA			1 kohms,1/6W
R41	VRD-ST2CD102J	AA			1 kohms,1/6W
R42	VRD-ST2CD102J	AA			1 kohms,1/6W
R43	VRS-CY1JB220J	AA			22 ohms,1/16W
R44	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R45	VRS-CY1JB151J	AA			150 ohms,1/16W
R46	VRS-CY1JB223J	AA			22 kohms,1/16W
R47	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R48	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R49	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R50	VRS-CY1JB103J	AA			10 kohms,1/16W
R51	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in CD PWB-D]
R51	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green (Use in Main PWB-A1)
R52	VRS-CY1JB820J	AA			82 ohms,1/16W [Use in CD PWB-D]
R52	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green (Use in Main PWB-A1)
R53	VRD-ST2EE1R0J	AA			1 ohms,1/4W
R54	VRD-ST2EE1R0J	AA			1 ohms,1/4W
R55	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R57	VRD-ST2CD333J	AA			33 kohms,1/6W
R58	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R59	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R60	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R61	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R62	VRD-ST2CD271J	AA			270 ohms,1/6W
R63	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R64	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R65	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R66	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R67	VRS-CY1JB225J	AA			2.2 Mohms,1/16W
R68	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R101	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R102	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R103	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R104	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R105	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R106	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R107	VRS-CY1JB101J	AA			100 ohms,1/16W [Use in IPOD PWB-C]
R107	VRS-CY1JB473J	AA			47 kohms,1/16W [Use in MAIN PWB-A1]
R108	VRS-CY1JB473J	AA			47 kohms,1/16W
R109	VRS-CY1JB472J	AA			4.7 kohms,1/16W [Use in MAIN PWB-A1]
R110	VRSCY1JB5493F	AA			549 kohms,1/16W [Use in IPOD PWB-C]
R110	VRS-CY1JB472J	AA			4.7 kohms,1/16W [Use in MAIN PWB-A1]
R111	VRD-ST2CD153J	AA			15 kohms,1/6W
R112	VRD-ST2CD153J	AA			15 kohms,1/16W
R113	VRS-CY1JB101J	AA			100 ohms,1/16W [Use in IPOD PWB-C]
R113	VRS-CY1JB332J	AA			3.3 kohms,1/16W [Use in MAIN PWB-A1]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R114	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in IPOD PWB-C]
R114	VRS-CY1JB332J	AA			3.3 kohms,1/16W [Use in MAIN PWB-A1]
R115	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green (Use in IPOD PWB-C)
R115	VRD-ST2CD560J	AA			56 ohms,1/6W [Use in MAIN PWB-A1]
R116	VRD-ST2CD560J	AA			56 ohms,1/6W
R117	VRS-CY1JB104J	AA			100 kohms,1/16W
R118	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in IPOD PWB-C]
R118	VRS-CY1JB104J	AA			100 kohms,1/16W [Use in MAIN PWB-A1]
R119	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in IPOD PWB-C]
R119	VRS-CY1JB392J	AA			3.9 kohms,1/16W [Use in MAIN PWB-A1]
R120	VRS-CY1JB104J	AA			100 kohms,1/16W [Use in IPOD PWB-C]
R120	VRS-CY1JB392J	AA			3.9 kohms,1/16W [Use in MAIN PWB-A1]
R121	VRS-CY1JB104J	AA			100 kohms,1/16W [Use in IPOD PWB-C]
R121	VRS-CY1JB333J	AA			33 kohms,1/16W [Use in MAIN PWB-A1]
R122	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in IPOD PWB-C]
R122	VRS-CY1JB333J	AA			33 kohms,1/16W [Use in MAIN PWB-A1]
R123	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in IPOD PWB-C]
R123	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in MAIN PWB-A1]
R124	VRS-CY1JB102J	AA			1 kohms,1/16W
R126	VRS-CY1JB333J	AA			33 kohms,1/16W
R127	VRS-CY1JB333J	AA			33 kohms,1/16W
R128	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in IPOD PWB-C]
R128	VRS-CY1JB392J	AA			3.9 kohms,1/16W [Use in MAIN PWB-A1]
R129	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in IPOD PWB-C]
R129	VRS-CY1JB392J	AA			3.9 kohms,1/16W [Use in MAIN PWB-A1]
R130	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R131	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in IPOD PWB-C]
R131	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R132	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in IPOD PWB-C]
R132	VRS-CY1JB151J	AA			150 ohms,1/16W [Use in MAIN PWB-A1]
R133	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in IPOD PWB-C]
R133	VRS-CY1JB151J	AA			150 ohms,1/16W [Use in MAIN PWB-A1]
R134	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in IPOD PWB-C]
R134	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in MAIN PWB-A1]
R135	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in MAIN PWB-A1]
R135	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in IPOD PWB-C]
R136	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in MAIN PWB-A1]
R136	VRD-ST2CD184J	AA			180 kohms,1/6W [Use in MAIN PWB-A1]
R137	VRD-ST2CD184J	AA			180 kohms,1/6W [Use in MAIN PWB-A1]
R138	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in IPOD PWB-C]
R138	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in MAIN PWB-A1]
R139	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in IPOD PWB-C]
R139	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in MAIN PWB-A1]
R140	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in IPOD PWB-C]
R140	VRS-CY1JB473J	AA			47 kohms,1/16W [Use in MAIN PWB-A1]
R141	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R142	VRD-RT2HD121J	AA			120 ohms,1/2W
R143	VRS-CY1JB473J	AA			47 kohms,1/16W
R144	VRS-CY1JB223J	AA			22 kohms,1/16W
R145	VRD-ST2CD4R7J	AA			4.7 ohms,1/6W
R146	VRS-CY1JB103J	AA			10 kohms,1/16W
R147	VRS-CY1JB103J	AA			10 kohms,1/16W
R148	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R149	VRD-ST2EE151J	AA			150 ohms,1/4W
R150	VRS-CY1JB683J	AA			68 kohms,1/16W
R151	VRS-CY1JB102J	AA			1 kohms,1/16W
R152	VRS-CY1JB102J	AA			1 kohms,1/16W
R153	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R154	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R158	VRD-ST2EE221J	AA			220 ohms,1/4W
R160	VRS-CY1JB101J	AA			100 ohms,1/16W
R161	VRS-CY1JB101J	AA			100 ohms,1/16W
R163	VRS-CY1JB473J	AA			47 kohms,1/16W
R164	VRS-CY1JB473J	AA			47 kohms,1/16W
R601	VRD-ST2CD102J	AA			1 kohms,1/6W
R602	VRD-ST2CD102J	AA			1 kohms,1/6W
R603	VRD-ST2CD102J	AA			1 kohms,1/6W
R606	VRS-CY1JB562J	AA			8.2 kohms,1/16W
R607	VRS-CY1JB562J	AA			8.2 kohms,1/16W
R608	VRS-CY1JB821J	AA			820 ohms,1/16W
R609	VRS-CY1JB821J	AA			820 ohms,1/16W
R614	VRS-CY1JB224J	AA			220 kohms,1/16W
R615	VRS-CY1JB224J	AA			220 kohms,1/16W
R616	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R617	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R618	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R619	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R620	VRS-CY1JB223J	AA			22 kohms,1/16W
R622	VRD-ST2CD153J	AA			15 kohms,1/6W
R623	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R624	VRS-CY1JB123J	AA			12 kohms,1/16W
R629	VRS-CY1JB123J	AA			12 kohms,1/16W
R630	VRS-CY1JB474J	AA			470 kohms,1/16W
R631	VRS-CY1JB104J	AA			100 kohms,1/16W
R636	VRS-CY1JB103J	AA			10 kohms,1/16W
R637	VRS-CY1JB103J	AA			10 kohms,1/16W
R638	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R639	VRS-CY1JB103J	AA			10 kohms,1/16W

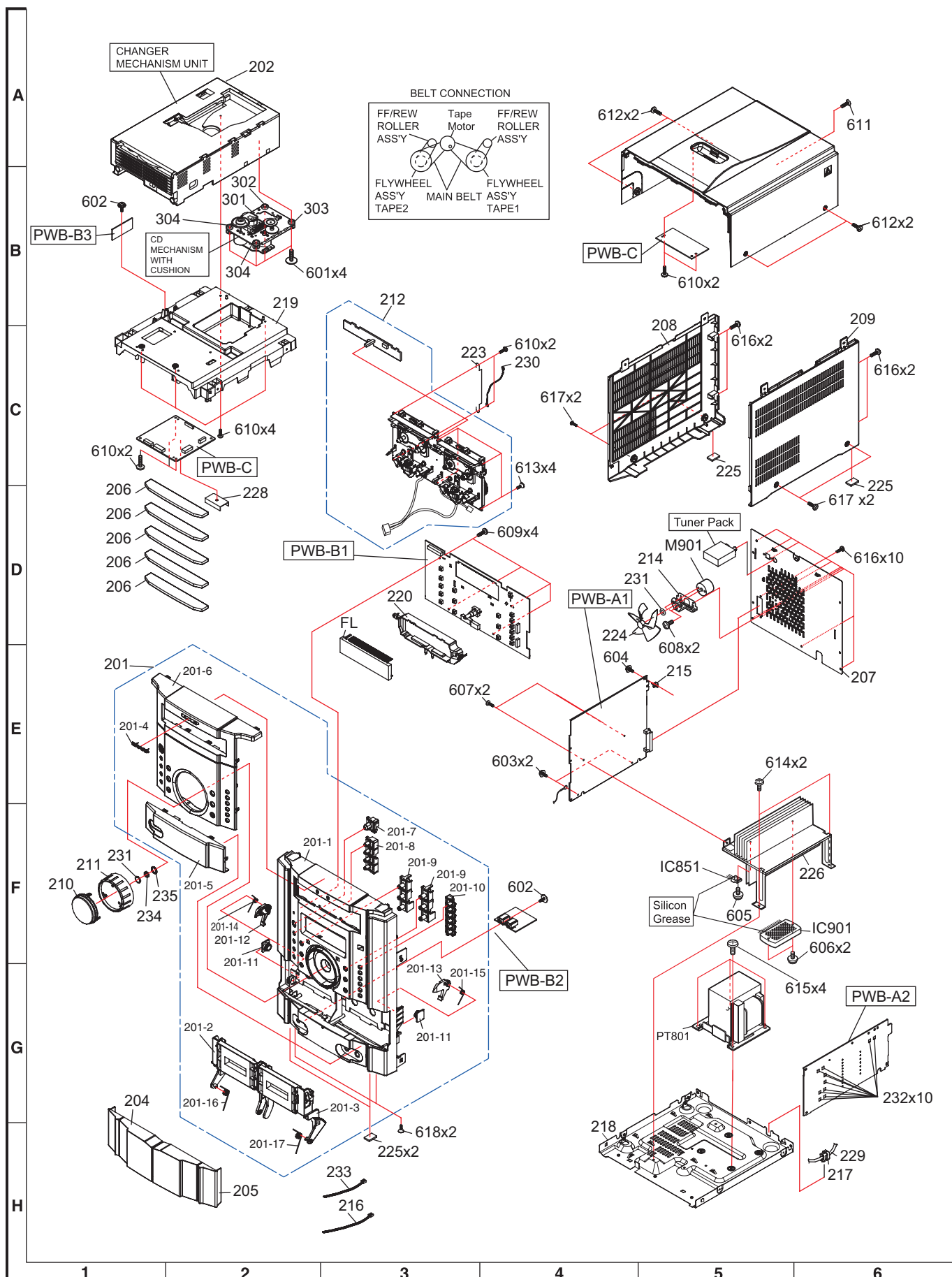
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R640	VRS-CY1 JB103J	AA			10 kohms,1/16W
R641	VRS-CY1 JB472J	AA			4.7 kohms,1/16W
R645	VRS-CY1 JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R646	VRS-CY1 JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R652	VRD-ST2CD223J	AA			22 kohms,1/6W
R656	VRS-CY1 JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R657	VRS-CY1 JB153J	AA			15 kohms,1/16W
R658	VRS-CY1 JB153J	AA			15 kohms,1/16W
R659	VRS-CY1 JB183J	AA			18 kohms,1/16W
R660	VRS-CY1 JB183J	AA			18 kohms,1/16W
R661	VRS-CY1 JB682J	AA			6.8 kohms,1/16W
R662	VRS-CY1 JB682J	AA			6.8 kohms,1/16W
R663	VRS-CY1 JB102J	AA			1 kohms,1/16W
R664	VRS-CY1 JB102J	AA			1 kohms,1/16W
R670	VRS-CY1 JB222J	AA			2.2 kohms,1/16W
R671	VRS-CY1 JB222J	AA			2.2 kohms,1/16W
R675	VRD-ST2CD223J	AA			22 kohms,1/6W
R676	VRD-ST2CD223J	AA			22 kohms,1/6W
R677	VRS-CY1 JB103J	AA			10 kohms,1/16W
R678	VRS-CY1 JB103J	AA			10 kohms,1/16W
R682	VRD-ST2CD153J	AA			15 kohms,1/6W
R683	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R685	VRS-CY1 JB102J	AA			1 kohms,1/16W
R686	VRS-CY1 JB822J	AA			8.2 kohms,1/16W
R687	VRS-CY1 JB822J	AA			8.2 kohms,1/16W
R688	VRS-CY1 JB104J	AA			100 kohms,1/16W
R689	VRS-CY1 JB104J	AA			100 kohms,1/16W
R702	VRD-ST2CD102J	AA			1 kohms,1/6W
R703	VRD-ST2CD102J	AA			1 kohms,1/6W
R704	VRD-ST2CD102J	AA			1 kohms,1/6W
R705	VRD-ST2CD102J	AA			1 kohms,1/6W
R706	VRD-ST2CD102J	AA			1 kohms,1/6W
R707	VRD-ST2CD102J	AA			1 kohms,1/6W
R709	VRD-ST2CD102J	AA			1 kohms,1/6W
R710	VRD-ST2CD102J	AA			1 kohms,1/6W
R711	VRD-ST2CD102J	AA			1 kohms,1/6W
R712	VRD-ST2CD102J	AA			1 kohms,1/6W
R713	VRD-ST2CD102J	AA			1 kohms,1/6W
R719	VRS-CY1 JB104J	AA			100 kohms,1/16W
R720	VRD-ST2CD182J	AA			1.8 kohms,1/6W
R721	VRD-ST2CD102J	AA			1 kohms,1/6W
R722	VRD-ST2CD221J	AA			220 ohms,1/6W
R723	VRD-ST2CD221J	AA			220 ohms,1/6W
R724	VRS-CY1 JB102J	AA			1 kohms,1/16W
R725	VRD-ST2CD102J	AA			1 kohms,1/6W
R726	VRD-ST2CD102J	AA			1 kohms,1/6W
R727	VRD-ST2CD102J	AA			1 kohms,1/6W
R728	VRD-ST2CD102J	AA			1 kohms,1/6W
R729	VRD-ST2CD102J	AA			1 kohms,1/6W
R730	VRD-ST2CD102J	AA			1 kohms,1/6W
R731	VRD-ST2CD102J	AA			1 kohms,1/6W
R732	VRD-ST2CD102J	AA			1 kohms,1/6W
R733	VRD-ST2CD102J	AA			1 kohms,1/6W
R734	VRD-ST2CD102J	AA			1 kohms,1/6W
R735	VRS-CY1 JB561J	AA			560 ohms,1/16W
R736	VRS-CY1 JB102J	AA			1 kohms,1/16W
R737	VRS-CY1 JB102J	AA			1 kohms,1/16W
R738	VRS-CY1 JB102J	AA			1 kohms,1/16W
R739	VRD-ST2CD681J	AA			680 ohms,1/6W
R742	VRS-CY1 JB102J	AA			1 kohms,1/16W
R743	VRS-CY1 JB102J	AA			1 kohms,1/16W
R744	VRS-CY1 JB102J	AA			1 kohms,1/16W
R745	VRS-CY1 JB102J	AA			1 kohms,1/16W
R746	VRS-CY1 JB102J	AA			1 kohms,1/16W
R747	VRD-ST2CD102J	AA			1 kohms,1/6W
R748	VRS-CY1 JB102J	AA			1 kohms,1/16W
R749	VRS-CY1 JB102J	AA			1 kohms,1/16W
R750	VRS-CY1 JB102J	AA			1 kohms,1/16W
R751	VRS-CY1 JB102J	AA			1 kohms,1/16W
R752	VRD-ST2CD102J	AA			1 kohms,1/6W
R753	VRD-ST2CD102J	AA			1 kohms,1/6W
R754	VRS-CY1 JB102J	AA			1 kohms,1/16W
R755	VRS-CY1 JB102J	AA			1 kohms,1/16W
R756	VRS-CY1 JB102J	AA			1 kohms,1/16W
R757	VRD-ST2CD102J	AA			1 kohms,1/6W
R760	VRS-CY1 JB103J	AA			10 kohms,1/16W
R761	VRS-CY1 JB103J	AA			10 kohms,1/16W
R762	VRS-CY1 JB103J	AA			10 kohms,1/16W
R764	VRS-CY1 JB472J	AA			4.7 kohms,1/16W
R765	VRS-CY1 JB472J	AA			4.7 kohms,1/16W
R766	VRS-CY1 JB272J	AA			2.7 kohms,1/16W
R770	VRD-ST2CD103J	AA			10 kohms,1/6W
R771	VRD-ST2CD103J	AA			10 kohms,1/6W
R772	VRS-CY1 JB103J	AA			10 kohms,1/16W
R776	VRD-ST2CD473J	AA			47 kohms,1/6W
R777	VRS-CY1 JB104J	AA			100 kohms,1/16W
R778	VRD-ST2CD101J	AA			100 ohms,1/6W
R784	VRS-CY1 JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R798	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
	R799	VRD-ST2EE1R5J	AA		1.5 ohms,1/4W
	R801	VRD-ST2CD104J	AA		100 kohms,1/6W
	R802	VRD-ST2CD473J	AA		47 kohms,1/6W
	R803	VRD-ST2CD123J	AA		12 kohms,1/6W
	R804	VRD-ST2EE470J	AA		47 ohms,1/4W
	R805	VRD-ST2EE470J	AA		47 ohms,1/4W
	R806	VRD-ST2CD473J	AA		47 kohms,1/6W
	R808	VRD-RT2HD222J	AA		2.2 kohms,1/2W
	R841	VRD-ST2CD224J	AA		220 kohms,1/6W
	R842	VRD-ST2CD102J	AA		1 kohms,1/6W
	R843	VRD-ST2CD473J	AA		47 kohms,1/6W
	R844	VRD-ST2EE820J	AA		82 ohms,1/4W
	R853	VRD-ST2CD223J	AA		22 kohms,1/6W
	R854	VRD-ST2CD332J	AA		3.3 kohms,1/6W
	R857	VRD-ST2CD223J	AA		22 kohms,1/6W
	R858	VRD-ST2CD221J	AA		220 ohms,1/6W
	R859	VRD-ST2CD103J	AA		10 kohms,1/6W
	R860	VRN-CM05N100J	AD		10 ohms,5W
	R863	VRD-RT2HD3R3J	AA		3.3 ohms,1/2W
	R864	VRD-ST2CD223J	AA		22 kohms,1/6W
	R885	VRS-CY1JB102J	AA		1 kohms,1/16W
	R886	VRS-CY1JB223J	AA		22 kohms,1/16W
	R887	VRS-CY1JB223J	AA		22 kohms,1/16W
	R888	VRD-ST2CD473J	AA		47 kohms,1/6W
	R889	VRD-ST2CD473J	AA		47 kohms,1/6W
△	R890	RR-HZ0001AWZZ	AD		4.7 Mohms,1/2W
	R891	VRD-ST2EE101J	AA		100 ohms,1/4W
	R901	VRS-CY1JB563J	AA		56 kohms,1/16W
	R902	VRS-CY1JB563J	AA		56 kohms,1/16W
	R903	VRS-CY1JB102J	AA		1 kohms,1/16W
	R904	VRS-CY1JB102J	AA		1 kohms,1/16W
	R905	VRS-CY1JB561J	AA		560 ohms,1/16W
	R906	VRS-CY1JB561J	AA		560 ohms,1/16W
	R907	VRS-CY1JB563J	AA		56 kohms,1/16W
	R908	VRS-CY1JB102J	AA		1 kohms,1/16W
	R909	VRS-CY1JB333J	AA		33 kohms,1/16W
	R910	VRD-ST2CD102J	AA		1 kohms,1/6W
	R911	VRS-CY1JB563J	AA		56 kohms,1/16W
△	R912	VRG-ST2EC101J	AA		100 ohms,1/4W,Fusible
	R913	VRN-VV3LAR22J	AC		0.22 ohms,3W
	R916	VRN-VV3LAR22J	AC		0.22 ohms,3W
	R917	VRN-VV3LAR10J	AD		0.1 ohms,3W
	R918	VRD-ST2CD152J	AA		1.5 kohms,1/6W
	R919	VRS-CY1JB182J	AA		1.8 kohms,1/16W
	R920	VRS-CY1JB182J	AA		1.8 kohms,1/16W
	R921	VRD-ST2CD152J	AA		1.5 kohms,1/6W
	R922	VRN-VV3LAR10J	AD		0.1 ohms,3W
	R925	VRD-RT2HD152J	AA		1.5 kohms,1/2W
	R926	VRD-RT2HD152J	AA		1.5 kohms,1/2W
	R927	VRD-ST2EE393J	AA		39 kohms,1/4W
	R928	VRD-ST2EE393J	AA		39 kohms,1/4W
	R929	VRD-ST2EE473J	AA		47 kohms,1/4W
	R930	VRD-ST2EE473J	AA		47 kohms,1/4W
	R934	VRD-ST2CD563J	AA		56 kohms,1/6W
	R935	VRD-ST2CD563J	AA		56 kohms,1/6W
	R937	VRS-CY1JB563J	AA		56 kohms,1/16W
	R938	VRD-RT2HD100J	AA		10 ohms,1/2W
	R939	VRD-RT2HD100J	AA		10 ohms,1/2W
	R940	VRD-RT2HD100J	AA		10 ohms,1/2W
	R941	VRD-RT2HD100J	AA		10 ohms,1/2W
	R942	VRS-VV3DA152J	AB		1.5 kohms,2W
	R943	VRS-VV3DA152J	AB		1.5 kohms,2W
	R944	VRD-ST2CD152J	AA		1.5 kohms,1/6W
	R945	VRD-ST2CD152J	AA		1.5 kohms,1/6W
	R946	VRS-CY1JB473J	AA		47 kohms,1/16W
	R947	VRS-CY1JB153J	AA		15 kohms,1/16W
	R949	VRD-RT2HD102J	AA		1 kohms,1/2W
	R950	VRD-ST2CD683J	AA		68 kohms,1/6W
	R956	VRS-CY1JB102J	AA		1 kohms,1/16W
△	R958	VRG-ST2EC101J	AB		100 ohms,1/4W, Fusible
	R983	VRS-CY1JB333J	AA		33 kohms,1/16W
	R984	VRS-CY1JB102J	AA		1 kohms,1/16W
	R985	VRS-CY1JB822J	AA		8.2 kohms,1/16W
	R986	VRS-CY1JB822J	AA		8.2 kohms,1/16W
	R987	VRS-CY1JB222J	AA		2.2 kohms,1/16W
	R988	VRS-CY1JB222J	AA		2.2 kohms,1/16W
	R990	VRD-ST2CD102J	AA		1 kohms,1/6W
	RA727	VRD-ST2CD392J	AA		3.9 kohms,1/6W
	RA728	VRD-ST2CD392J	AA		3.9 kohms,1/6W
	RA729	VRD-ST2CD332J	AA		3.3 kohms,1/6W
	RA730	VRD-ST2CD332J	AA		3.3 kohms,1/6W
	RA739	VRD-ST2CD473J	AA		47 kohms,1/6W
	RA780	VRD-ST2CD104J	AA		100 kohms,1/6W
	RB709	VRD-ST2CD472J	AA		4.7 kohms,1/6W
	RB711	VRS-CY1JB103J	AA		10 kohms,1/16W
	RB712	VRS-CY1JB103J	AA		10 kohms,1/16W
	RB713	VRS-CY1JB103J	AA		10 kohms,1/16W
	RB714	VRD-ST2CD681J	AA		680 ohms,1/6W

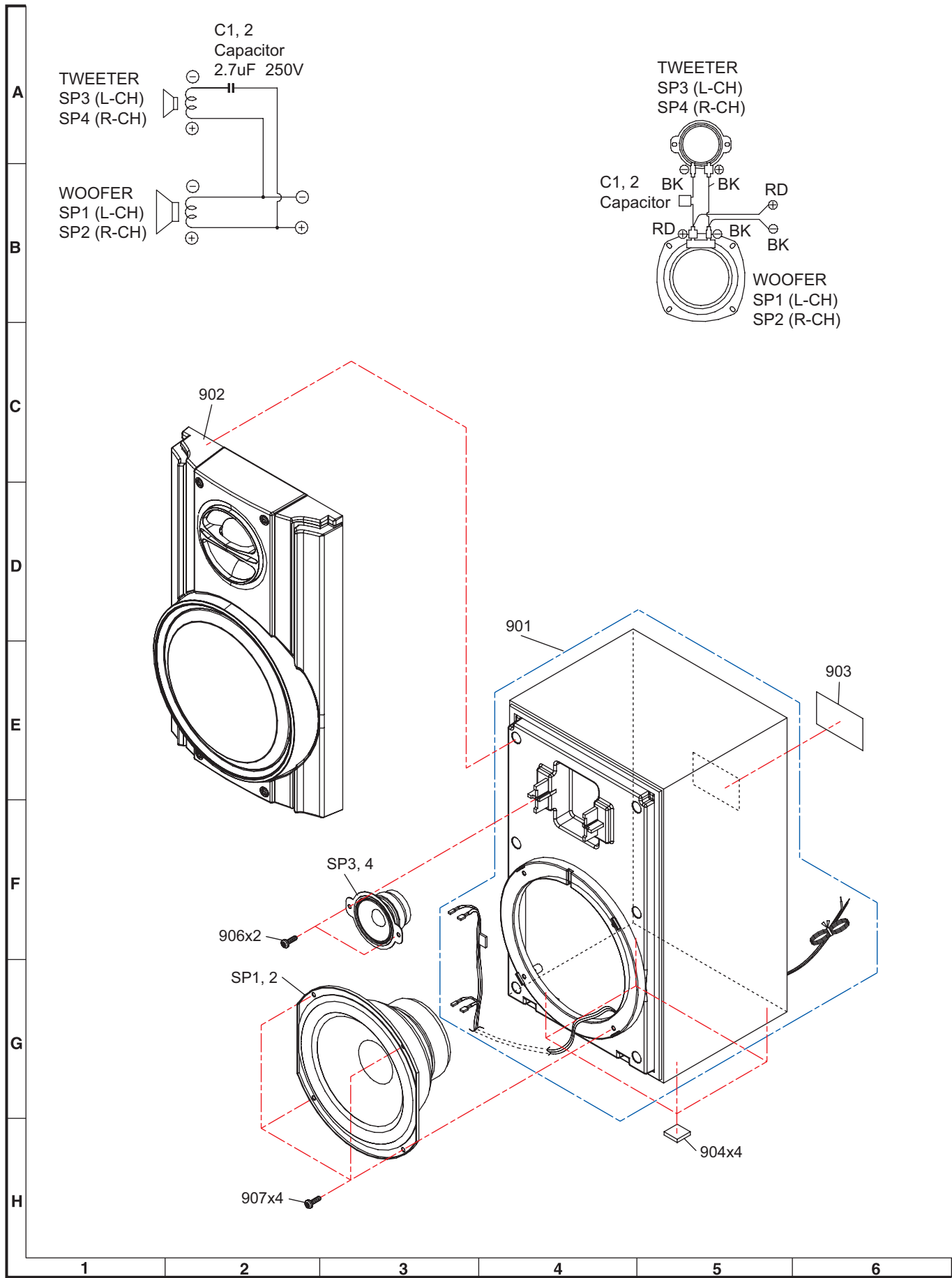
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
	RB715	VRD-ST2CD681J	AA		680 ohms,1/6W
	RB716	VRD-ST2CD222J	AA		2.2 kohms,1/6W
	RD01	VRS-CY1JB681J	AA		680 ohms,1/16W
	RD02	VRS-CY1JB821J	AA		820 ohms,1/16W
	RD03	VRD-ST2CD102J	AA		1 kohms,1/6W
	RD04	VRD-ST2CD681J	AA		680 ohms,1/6W
	RD05	VRS-CY1JB821J	AA		820 ohms,1/16W
	RD06	VRD-ST2CD102J	AA		1 kohms,1/6W
	RD07	VRD-ST2CD152J	AA		1.5 kohms,1/6W
	RD08	VRS-CY1JB681J	AA		680 ohms,1/16W
	RD09	VRD-ST2CD821J	AA		820 ohms,1/6W
	RD10	VRS-CY1JB102J	AA		1 kohms,1/16W
	RD11	VRS-CY1JB152J	AA		1.5 kohms,1/16W
	RD12	VRS-CY1JB222J	AA		2.2 kohms,1/16W
	RD13	VRS-CY1JB222J	AA		2.2 kohms,1/16W
	RD14	VRS-CY1JB152J	AA		1.5 kohms,1/16W
	RD714	VRS-CY1JB000J	AA		0 ohms,Jumper,0.8x1.55mm,Green
	RD722	VRS-CY1JB561J	AA		560 ohms,1/16W
	RD723	VRS-CY1JB331J	AA		330 ohms,1/16W
	RD751	VRD-ST2CD103J	AA		10 kohms,1/6W
	RD752	VRS-CY1JB103J	AA		10 kohms,1/16W
	RD753	VRS-CY1JB103J	AA		10 kohms,1/16W
	RD754	VRS-CY1JB103J	AA		10 kohms,1/16W
	RD755	VRS-CY1JB103J	AA		10 kohms,1/16W
	RD756	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU706	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU707	VRS-CY1JB122J	AA		1.2 kohms,1/16W
	RU709	VRS-CY1JB122J	AA		1.2 kohms,1/16W
	RU710	VRS-CY1JB182J	AA		1.8 kohms,1/16W
	RU711	VRS-CY1JB182J	AA		1.8 kohms,1/16W
	RU720	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU725	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU726	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU734	VRD-ST2CD103J	AA		10 kohms,1/6W
	RU736	VRD-ST2CD472J	AA		4.7 kohms,1/6W
	RU737	VRD-ST2CD472J	AA		4.7 kohms,1/6W
	RU738	VRD-ST2CD472J	AA		4.7 kohms,1/6W
	RU746	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU747	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU748	VRS-CY1JB103J	AA		10 kohms,1/16W
	RU749	VRS-CY1JB103J	AA		10 kohms,1/16W
	RS701	VRS-CY1JB000J	AA		0 ohms,Jumper,0.8x1.55mm,Green
[9] OTHER CIRCUITRY PARTS					
	B1601	QCNWNA261AWPZ	AG		Connector Ass'y, 8/7 Pin with CNS601
	B1603	QCNWNB021AWPZ	AH		Connector Ass'y, 3 Pin
	B1604	QCNWNB074AWPZ	AH		Connector Ass'y, 8 Pin
	B1702	QCNWNA267AWPZ	AF		Connector Ass'y, 7/6 Pin with CNS702
	B1704	QCNWNB075AWPZ	AH		Connector Ass'y, 7 Pin
	B1801	QCNWNA270AWPZ	AK		Connector Ass'y, 11/10 Pin
	CNP1	QCNCWYP16AWZZ	AD		Socket, 16 Pin
	CNP2	QCNCM705FAFZZ	AB		Connector, 6 Pin
	CNP3	92LCONE7P53254	AB		Socket, 7 Pin
	CNP4	QCNCWZX11AWZZ	AC		Socket, 11 Pin
	CNP4A	QCNCWZO11AWZZ	AC		Socket, 11 Pin
	CNP7	QCNCWZY14AWZZ	AD		Socket, 14 Pin
	CNP101	QCNCWA046AW30	AQ		Connector, 30 Pin [Use in IPOD PWB-C]
	CNP101	QCNCM705CAFZZ	AA		Connector, 3 Pin [Use in CD PWB-D]
	CNP102	QCNCM705GAFZZ	AB		Connector, 7 Pin [Use in CD PWB-D]
	CNP102	QCNCWXC17AFZZ	AF		Connector, 17 Pin [Use in IPOD PWB-C]
	CNP102A	QCNCWYP17AWZZ	AD		Connector, 17 Pin
	CNP303	QCNCWZX11AWZZ	AC		Socket, 11 Pin
	CNP603	92LCONE3P53253	AB		Connector, 3 Pin
	CNP604B	92LCONE8P53254	AC		Socket, 8 Pin
	CNP701A	QCNCWZY21AWZZ	AD		Socket, 21 Pin
	CNP701B	QCNCWZX21AWZZ	AD		Socket, 21 Pin
	CNP702	QCNCWZY10AWZZ	AC		Socket, 10 Pin
	CNP703	QCNCWZY14AWZZ	AC		Socket, 14 Pin
	CNP704	QCNCM704GAFZZ	AC		Connector, 7 Pin [Use in CD PWB-D]
	CNP801	QCNCM035KAWZZ	AC		Connector, 10 Pin
	CNP802	92LCONE6P53253	AC		Connector, 6 Pin
	CNP805	QCNCM036BAWZZ	AC		Connector, 2 Pin
	CNP901	92LCONE5P52147	AD		Connector, 5 Pin
	CNP971	92LCONE2P53253	AB		Connector, 2 Pin
	CNS2A	QCNWNA923AWPZ	AH		Connector Ass'y, 6 Pin with CNS2B
	CNS101	QCNWNA936AWPZ	AK		Connector Ass'y, 3 Pin
	CNS102	QCNWNA937AWPZ	AM		Connector Ass'y, 7 Pin
	CNS971	QCNWNA080AWPZ	AC		Connector Ass'y, 2 Pin
	F801	QFS-D402BSJNi	AB		Fuse, 4A/125V
	F802	QFS-D402BSJNi	AB		Fuse, 4A/125V
	F803	QFS-D202BSJNi	AB		Fuse, 2A/125V
	F804	QFS-D202BSJNi	AB		Fuse, 2A/125V
	F805	QFS-D402BSJNi	AB		Fuse, 4A/125V
	FFC1	QCNWN2700AWPZ	AE		Flat Cable, 16 Pin
	FFC4	QCNWN2701AWPZ	AD		Flat Cable, 11 Pin
	FFC102A	QCNWNB073AWPZ	AG		Flat Cable, 17 Pin
	FFC303	QCNWN2525AWZZ	AC		Flat Cable, 11 Pin
	FFC701	QCNWNB076AWPZ	AF		Flat Cable, 21 Pin

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] OTHER CIRCUITRY PARTS					
	FFC702	QCNWNA935AWPZ	AD		Flat Cable, 10 Pin
	FFC703	QCNWN2717AWPZ	AF		Flat Cable, 14 Pin
△	FH801	92LFSHOLD1652T	AB		Fuse Holder
△	FH802	92LFSHOLD1652T	AB		Fuse Holder
△	FH803	92LFSHOLD1652T	AB		Fuse Holder
△	FH804	92LFSHOLD1652T	AB		Fuse Holder
△	FH805	92LFSHOLD1652T	AB		Fuse Holder
△	FH806	92LFSHOLD1652T	AB		Fuse Holder
△	FH807	92LFSHOLD1652T	AB		Fuse Holder
△	FH808	92LFSHOLD1652T	AB		Fuse Holder
△	FH809	92LFSHOLD1652T	AB		Fuse Holder
△	FH810	92LFSHOLD1652T	AB		Fuse Holder
	FL701	VVKNA12MM54-1	AU		FL Display
	FW901	QCNWN2711AWPZ	AD		Flat Wire, 5 Pin
	JK691	QSOCJ0120AWZZ	AD		Jack, Video
	JKA701	QJAKM0004AWZZ	AK		Jack, Headphone
	JKA702	QJAKM0004AWZZ	AK		Jack, Headphone
	JOG701	QSW-ZA001AWZZ	AE		Switch,Jog Type [VOLUME]
	LG1	QLUGPA001AWZZ	AC		Lug
	LG2	QLUGPA001AWZZ	AC		Lug
	LG3	QLUGPA001AWZZ	AC		Lug
	LG4	QLUGPA001AWZZ	AC		Lug
	LUG2	QCNWN1860AWZZ	AC		Lug Wire
△	RL841	RRLYDA002AWZZ	AF		Relay
	RL914	RRLYD0016AWZZ	AH		Relay
	RX701	VHLK2013TC2P1	AG		Remote Sensor
	SO901	QTANA0424AWZZ	AE		Terminal, Speaker
	SW701	92LSWiCH1401AT	AC		Switch,Key Type [POWER ON/STAND-BY]
	SW702	92LSWiCH1401AT	AC		Switch,Key Type [CD]
	SW703	92LSWiCH1401AT	AC		Switch,Key Type [TAPE]
	SW704	92LSWiCH1401AT	AC		Switch,Key Type [TUNER(BAND)]
	SW705	92LSWiCH1401AT	AC		Switch,Key Type [PLAY]
	SW706	92LSWiCH1401AT	AC		Switch,Key Type [STOP]
	SW707	92LSWiCH1401AT	AC		Switch,Key Type [FAST REWIND/PRESET DOWN]
	SW708	92LSWiCH1401AT	AC		Switch,Key Type [TUNING DOWN]
	SW709	92LSWiCH1401AT	AC		Switch,Key Type [FAST FORWARD/PRESET UP]
	SW710	92LSWiCH1401AT	AC		Switch,Key Type [OPEN/CLOSE]
	SW711	92LSWiCH1401AT	AC		Switch,Key Type [DISC 5]
	SW712	92LSWiCH1401AT	AC		Switch,Key Type [DISC 4]
	SW713	92LSWiCH1401AT	AC		Switch,Key Type [DISC 3]
	SW714	92LSWiCH1401AT	AC		Switch,Key Type [DISC 2]
	SW715	92LSWiCH1401AT	AC		Switch,Key Type [DISC 1]
	SW716	92LSWiCH1401AT	AC		Switch,Key Type [TUNING UP]
	SW717	92LSWiCH1401AT	AC		Switch,Key Type [AUDIO IN]
	TP1	RTUNSA016AWZZ	AY		Tuner Pack
	WTM901	QCNCW019EAWZZ	AB		Socket,5 Pin
	WiRE A	QCNWNA059AWPZ	AB		Connecting Cord

-MEMO-



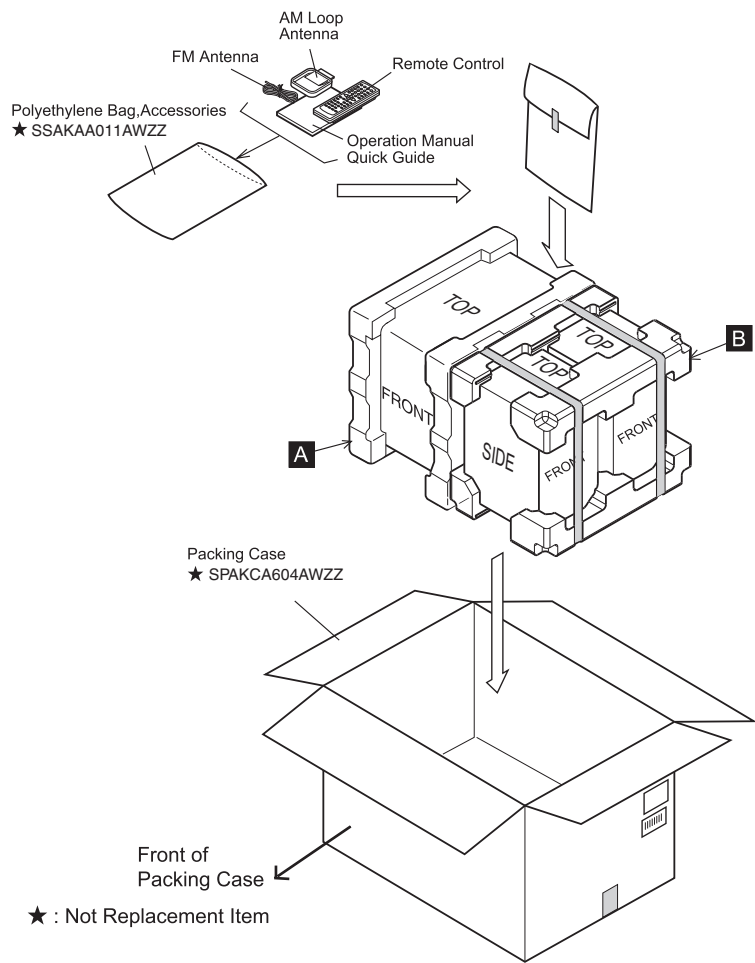
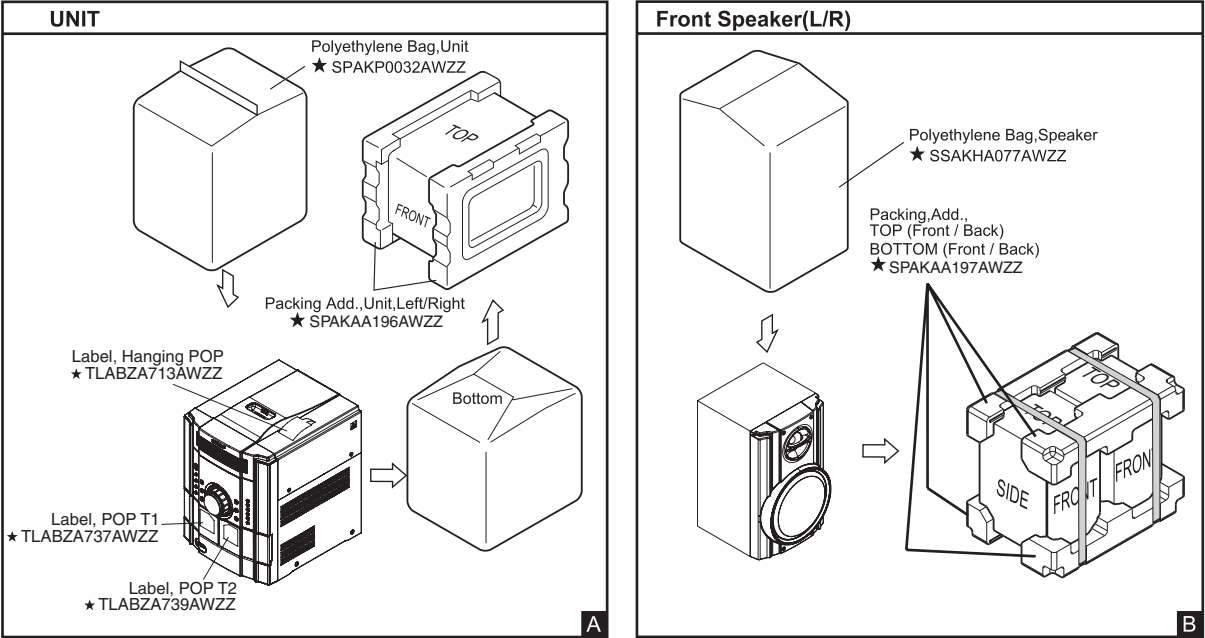
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] CABINET PARTS / CD MECHANISM PARTS					
201	CCABA7312AW02	-			Front Panel Ass'y
201-1	-----	-			Front Panel (Not Replacement Item)
201-2	GDORFA022AWZZ	AE			Holder, Cassette [Tape 1]
201-3	GDORFA023AWZZ	AE			Holder, Cassette [Tape 2]
201-4	HBDGBA007AWSA	AE			Badge, SHARP
201-5	HDECQA437AWSA	AK			Decoration Panel, B
201-6	HDECQA481AWSA	AP			Decoration Panel, A
201-7	JKNBZA248AWSA	AE			Button, Function & Power
201-8	JKNBZA249AWSA	AC			Button, Operation
201-9	JKNBZA250AWSA	AE			Button, Play
201-10	JKNBZA251AWSA	AH			Button, Disc Number
201-11	MLiF-A001AWZZ	AD			Damper
201-12	MLOKC0014AWZZ	AC			Lock, Cassette [Tape 1]
201-13	MLOKC0015AWZZ	AC			Lock, Cassette [Tape 2]
201-14	MSPRD0196AWFJ	AB			Spring, Cassette Lock [Tape 1]
201-15	MSPRD0197AWFJ	AC			Spring, Cassette Lock [Tape 2]
201-16	MSPRDA044AWFJ	AB			Spring, Cassette [Tape 1]
201-17	MSPRDA045AWFJ	AB			Spring, Cassette [Tape 2]
202	CDCMECA6663SRC	BK			Changer Mechanism Unit
203	GCAB-A063AWSA	AV			Top Cabinet
204	GCOVAA191AWSB	AL			Cover, Cassette [Tape 1]
205	GCOVAA192AWSB	AL			Cover, Cassette [Tape 2]
206	GCOVAA193AWSA	AE			Disc Tray Cover
207	GiTARA593AWSA	AN			Rear Panel
208	GiTASA203AWSA	AL			Side Panel, Left
209	GiTASA204AWSA	AL			Side Panel, Right
210	HDECQ1104AWSA	AL			Cover, Volume Knob
211	JKNBK0103AWSA	AD			Knob, Volume
212	KMECBA014AW01	BF			Tape Mechanism Ass'y
214	LANGK0437AWFW	AE			Bracket, Fan Support A
215	LANGT0042AWFW	AC			Bracket, PWB support
216	LBND-1011AWZZ	AA			Nylon Band
217	LBSHC0005AWZZ	AD			Bushing, AC Power Supply Cord
218	LCHSMA044AWFW	AR			Chassis, Main
219	LCHSZA014AWZZ	AN			Chassis, Changer Unit
220	LHLDZ9024AWZZ	AD			Holder, FL Display
223	MSPRDA037AWFJ	AC			Spring
224	NFANP0001AWZZ	AD			Rotary, Fan
225	PCUSGA128AWZZ	AB			Cushion, Leg
226	PRDARA139AWFW	AV			Heat Sink, Main
228	PRDARA155AWFW	AF			Heat Sink, Sub
229	QACCDAA002AWZZ	AN			AC Power Supply Cord
230	QCNWN1860AWZZ	AC			Lug Wire
231	92LCSPR1431C	AA			Spring, Ring
232	92LFSHOLD1652T	AB			Holder, Fuse
233	92LNBAND1318A	AA			Nylon Band, 80mm
234	-----	-			Nut (Not Replacement Item)
235	-----	-			Washer (Not Replacement Item)
301	KMECZA004AWZZ	AY			CD Mechanism Unit
302	PCUSG0001AWSA	AD			Cushion
303	PCUSG0004AWSA	AD			Cushion
304	PCUSGA099AWSA	AC			Cushion
601	LX-EZ0005AWF7	AB			Screw, Special
602	LX-EZ0010AWF7	AB			Screw, Special
603	LX-JZ0010AFF7	AB			Screw, M3 X10mm
604	LX-JZ0010AWF7	AB			Screw, Special
605	LX-JZ0036AWF7	AC			Screw, M3 X12mm
606	LX-JZ0037AWF7	AC			Screw, M3 X18mm
607	LX-JZ0044AWF8	AB			Screw, M3 X10mm
608	XBBY720P04000	AA			Screw, M2 X4mm
609	XEBY726P08000	AA			Screw, M2.6 X8mm
610	XEBY730P10000	AA			Screw, M3 X10mm
611	XEBY730P12000	AA			Screw, M3 X12mm
612	XEBY830P12000	AB			Screw, M3 X12mm
613	XESY730P10000	AA			Screw, M3 X10mm
614	XHBY730P06000	AB			Screw, M3 X6mm
615	XHBY740P08000	AB			Screw, M4 X8mm
616	XJBY730P10000	AA			Screw, M3 X10mm
617	XJBY830P10000	AA			Screw, M3 X10mm
618	XJSY730P08000	AA			Screw, M3 X8mm
M901	RMOTVA015AWZZ	AH			Motor, Air cooling Fan



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] SPEAKER BOX PARTS					
901	GBOXSA183AW02				Wooden Box Ass'y
902	CPNLSA077AW02				Front Panel Ass'y
903	TSPC-B099AWZZ				Label, Specification
904	PCUSGA020AWZZ	AB			Cushion, Foot
906	XEBY730P10000	AA			Screw, M3 x10mm
907	XEPY740P16000	AB			Screw, M4 X16mm
SP1, 2	RSP-ZA231AWZZ	BD			Woofer
SP3, 4	RSP-ZA075AWZZ	AT			Tweeter
[12] ACCESSORIES / PACKING PARTS					
	92LFANT1535A	AF			FM Antenna
	QANTL0010AWZZ	AP			AM Loop Antenna
	RRMCGA173AWSA	AT			Remote Control
	TCAUZA112AWZZ				Errata Sheet
	TiNSEA254AWZZ	AG			Operation Manual
	TiNSZA369AWZZ	AD			Quick Guide
	UACRTA008AW01	AP			Adaptor Accessories
[13] P.W.B. ASSEMBLY (Not Replacement Item)					
PWB-A	92LPWB7312MANS	-			Main A1 / Power A2
PWB-B	92LPWB7312DPLS	-			Display B1 / Audio In B2 / iPod Transit B3
PWB-C	92LPWB7312PODS				iPod
PWB-D	92LPWB6700CDUS	-			CD
[14] OTHER SERVICE PARTS					
	UDSKA0004AFZZ	AZ			CD Optical Pickup Lens Cleaner Disc

PACKING METHOD

Setting position of switches and knobs	
Tape Mechanism	STOP



“HOW TO ORDER REPLACEMENT PARTS”

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. No. |
| 3. PART NO. | 4. DESCRIPTION |

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Explanation of capacitors/resistors parts codes

Capacitors

VCC Ceramic type
VCK Ceramic type
VCT Semiconductor type
VC •• MF Cylindrical type (without lead wire)
VC •• MN Cylindrical type (without lead wire)
VC •• TV Square type (without lead wire)
VC •• TQ Square type (without lead wire)
VC •• CY Square type (without lead wire)
VC •• CZ Square type (without lead wire)
VC J .. The 13th character represents capacity difference.
("J" $\pm 5\%$, "K" $\pm 10\%$, "M" $\pm 20\%$, "N" $\pm 30\%$,
"C" ± 0.25 pF, "D" ± 0.5 pF, "Z" $+80-20\%$.)

If there are no indications for the electrolytic capacitors, error is $\pm 20\%$.

Resistors

VRD Carbon-film type
VRS Carbon-film type
VRN Metal-film type
VR •• MF Cylindrical type (without lead wire)
VR •• MN Cylindrical type (without lead wire)
VR •• TV Square type (without lead wire)
VR •• TQ Square type (without lead wire)
VR •• CY Square type (without lead wire)
VR •• CZ Square type (without lead wire)
VR J .. The 13th character represents error.
("J" $\pm 5\%$, "F" $\pm 1\%$, "D" $\pm 0.5\%$.)

If there are no indications for other parts, the resistors are $\pm 5\%$ carbon-film type.

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